

STORM DATA AND UNUSUAL WEATHER PHENOMENA



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Kenneth D. Walden

DIRECTOR
NATIONAL CLIMATIC DATA CENTER

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COVER: Severe storms were widespread over parts of Alabama several times in February 1990. Tornadoes were produced by the storm systems of the 3rd, 9th-10th, 15th-16th, and the 22nd. An F1 tornado produced this damage in the Margaret community of Saint Clair County. The tornado injured 11 people (no fatalities), destroyed 5 homes, and 1 mobile home, and caused estimated damages of \$1 million. Photograph courtesy The Birmingham News; Birmingham Post-Herald.

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STORM DATA

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National Climatic Data Center

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STORM DATA is prepared, funded, and distributed by the National Oceanic and Atmospheric Administration (NOAA). The Outstanding Storms of the Month section is prepared in cooperation with Mr. Vince Miller, Associate Editor. He is a broadcast meteorologist for THE WEATHER CHANNEL® in Atlanta, GA.

The Storm Data and Unusual Weather Phenomena Narratives and Hurricane/Tropical Storm summaries are prepared by the National Weather Service. Monthly and annual statistics and summaries of tornado and lightning events resulting in deaths, injuries, and damage are compiled by cooperative efforts between the National Climatic Data Center and the National Severe Storms Forecast Center.

STORM DATA contains all confirmed information on storms available to our staff at the time of publication. However, due to difficulties inherent in the collection of this type of data, it is not all-inclusive. Late reports and corrections are printed in the January, April, July, and October editions.

Maps of the National Weather Service Forecast Zones which are used in the Storm Data and Unusual Weather Phenomena section will be printed in all editions.

Except for limited editing for grammatical errors, material submitted are generally published as received.

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The editors of **STORM DATA** solicit your help in acquiring photographs (prints or slides; black and white, or color), maps, clippings, etc. of significant or unusual weather events (past or present). These could be for use in the "Outstanding Storms of the Month" or "Et Cetera" sections of **STORM DATA**. We request our subscribers or other interested persons to mail such items to:

Mr. Vince Miller
1464 Wood Thrush Way
Marietta, GA 30062

Any such items received by the editors will be for use in **STORM DATA** only. Any other use will be with the permission of the owner of said items. Materials submitted will be returned if requested in the original submission.

STORM FOLKS . . .



Some of the folks in the Warnings and Forecast Branch, Operations Division, Office of Meteorology, NWS Headquarters. Left to right: Bill Read, Linda Kremkau, and Donald Wernly.

BIOGRAPHICAL SKETCHES:

Donald R. Wernly (right)

As Chief of the Warnings and Forecast Branch in Weather Service Headquarters, is responsible for the functional management of the nation's public warning and forecast programs, weather dissemination programs, and the warning coordination and hazard awareness programs. This includes developing policy for the preparation, dissemination, and user response to warnings for tornadoes, severe thunderstorms, hurricanes, winter storms, high winds, and flash floods. Serves as NWS representative to NATO for the provision of weather support to the military.

Recently was NWS technical leader on the NOAA Disaster Survey for Hurricane Hugo as well as the Weather Service Headquarters lead on a Congressionally mandated study conducted by the Joints Chiefs of Staff on the complimentary roles of satellite imagery and aircraft reconnaissance in the tropical cyclone warning program.

Entered the NWS in 1970 as a pilot briefer at O'Hare International Airport in Chicago. Subsequently served in various forecaster positions at Weather Service Forecast Offices in Chicago, Topeka, and Fort Worth. In 1982 was appointed Assistant Chief of the Meteorological Services Division in Southern Region Headquarters, Fort Worth, TX with

functional management of the severe weather and hurricane warning programs for 10 southern states including Puerto Rico and the Virgin Islands.

Education includes a Bachelor of Science Degree in Meteorology from the University of Wisconsin.

Bill Read (left)

Currently the Mesoscale Meteorologist for the Warning and Forecast Branch, Office of Meteorology, National Weather Service Headquarters. In this position he has responsibility for the service programs involving severe local storms and flash floods. With regards to *STORM DATA*, he is involved in coordinating policy changes to the NWS role in collecting and reporting information that goes into the publication.

Bill came to NWS Headquarters in March 1989 after spending six years as a Lead Forecaster at the NWS Forecast Office in Fort Worth, TX. Prior to that he was an Intern and Journeyman Forecaster at the NWS Forecast Office in San Antonio, TX.

Prior to entering the NWS, he served in the Navy where he had diverse experiences ranging from hurricane reconnaissance to forecasting in Iceland.

Bill earned both the MS and BS in meteorology from Texas A&M University.

Linda Kremkau (center)

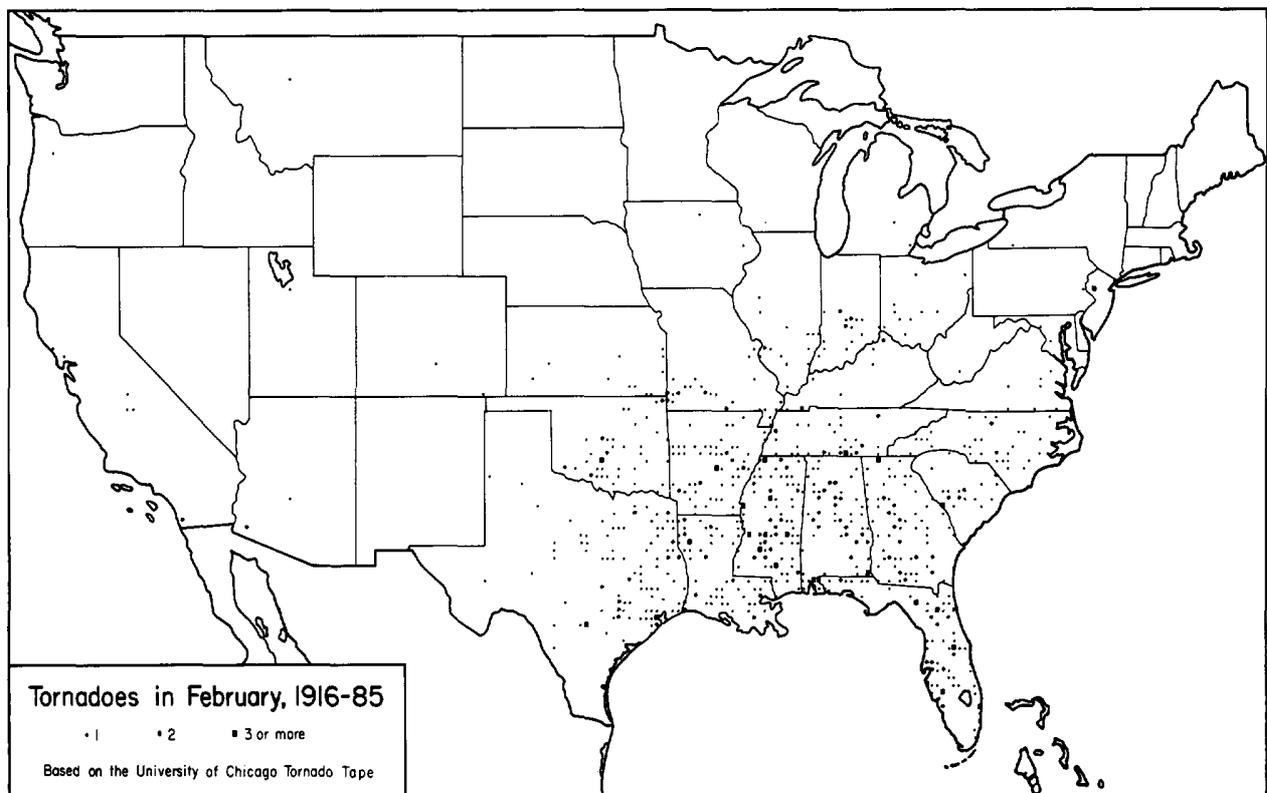
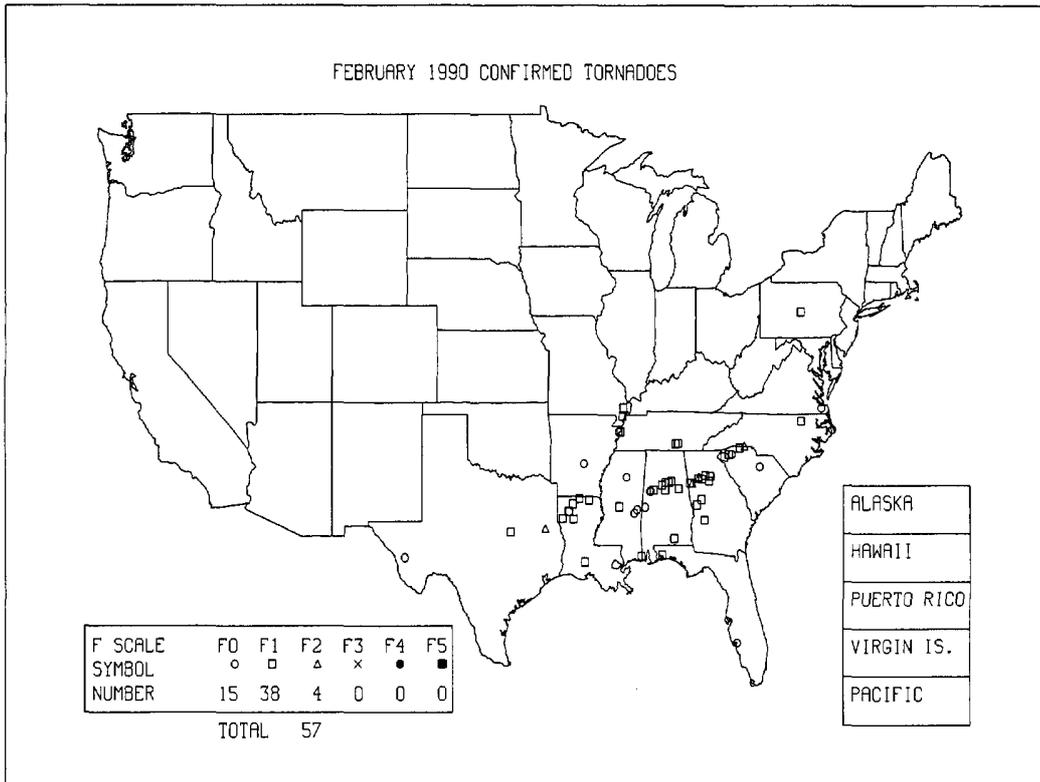
Program Support Specialist in the Warning and Forecast Branch, is the editor of the quarterly AWARE Report and is responsible for assembling and organizing articles concerning the modernization of the NWS, the U.S. Decade for Hazard Reduction, and branch initiatives. In addition, she often authors articles highlighting hazard awareness activities, statistics, and NWS audiovisual materials. Furthermore, she has been instrumental in developing the official NWS natural hazard statistics compiled from *STORM DATA* which is also featured in the AWARE Report.

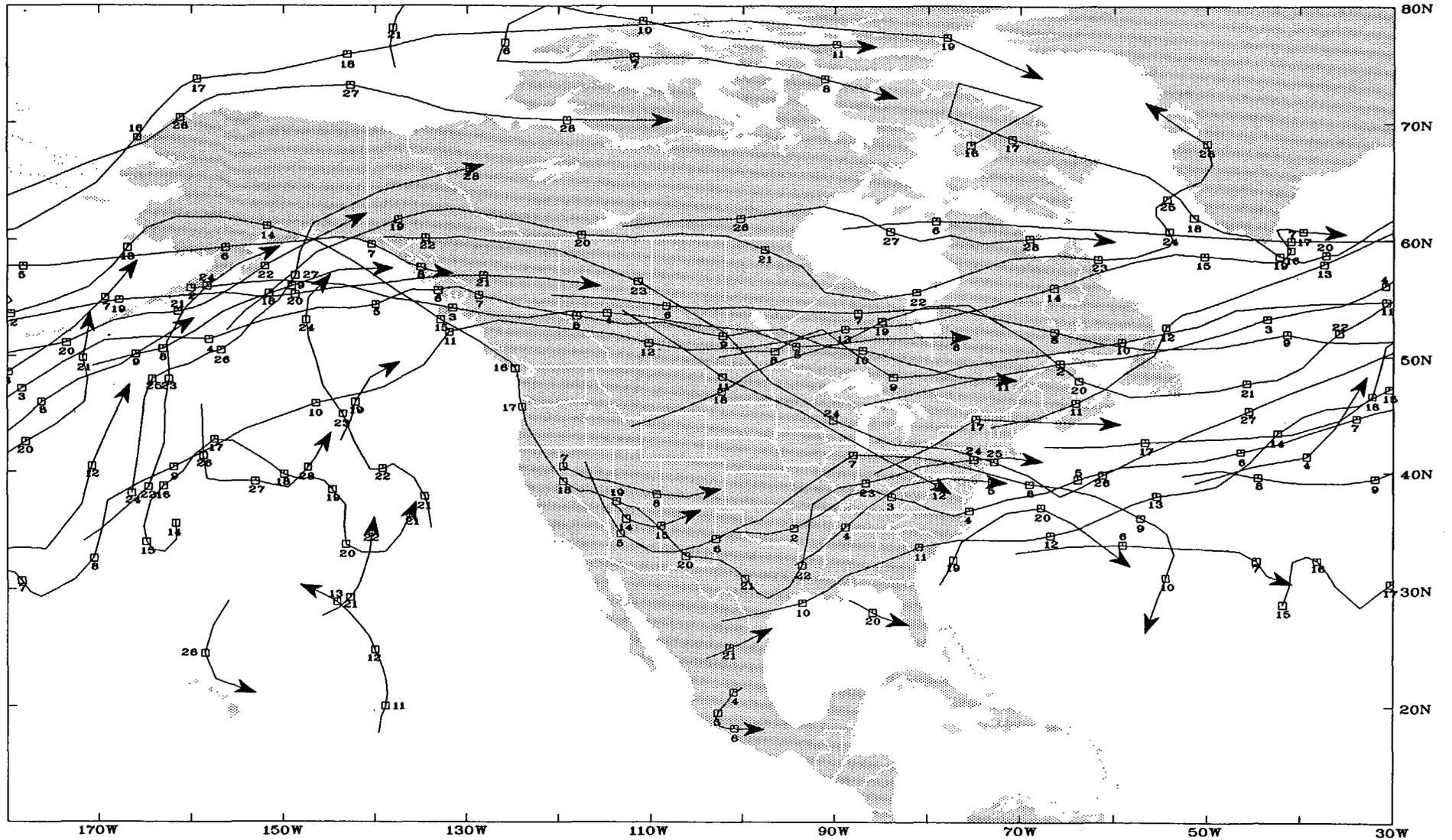
Linda oversees the NWS hazard awareness materials and has the responsibility of tracking and printing brochures and assists with the development and reproduction of slide sets and audiovisuals.

In addition, Linda serves as the budget analyst for the branch and special projects focal point for Operations Division.

Twelve years ago, Linda started out as a clerk-typist in the Public Services Branch. After a few years she moved up to the position of secretary in the Severe Weather Branch and a few years later was promoted to Program Assistant in the Warning and Forecast Branch.

OUTSTANDING STORMS OF THE MONTH





CYCLONE TRACKS AND DATES - February 1990

1. FEBRUARY SUMMARY

February 1990 was an active weather month, with excessive rains from the Southern Plains into the Ohio River Valley. Flooding rains also fell on much of the Tennessee River Valley and the western and northern sections of the South. Many western mountains were blanketed by heavy snows with 231.5 inches as the monthly total measured at Rainer Paradise Ranger Station, WA. Snow fell even at some northern California coastal locations. Temperatures from the Rockies eastward generally averaged well above normal for the month. (See Tables 1 and 2, Figures 1-3).

TEMPERATURE AND PRECIPITATION RANKINGS FOR FEBRUARY 1990, BASED ON THE PERIOD 1895-1990 (96 YEARS) WHERE 1=DRIEST/COLDEST AND 96=WETTEST/HOTTEST

REGION	PRECIPITATION	TEMPERATURE
NORTHEAST	49	86
EAST NORTH CENTRAL	41	80
CENTRAL	91	90
SOUTHEAST	69	94
WEST NORTH CENTRAL	3	74
SOUTH	94	85
SOUTHWEST	45	48
NORTHWEST	25	36
WEST	37	18
NATIONAL	56	82

National Climatic Data Center

PRECIPITATION RANKINGS FOR JAN-FEB 1990, BASED ON THE PERIOD 1895-1990 (96 YEARS) WHERE 1=DRIEST AND 96=WETTEST

STATE	RANK	STATE	RANK	STATE	RANK	STATE	RANK
AL	95	IA	27	NE	17	RI	20
AZ	24	KS	88	NV	49	SC	31
AR	83	KY	74	NH	12	SD	11
CA	34	LA	94	NJ	36	TN	63
CO	38	ME	47	NM	44	TX	73
CT	68	MD	22	NY	78	UT	48
DE	6	MA	19	NC	55	VT	44
FL	38	MI	56	ND	4	VA	34
GA	51	MN	21	OH	82	WA	58
ID	17	MS	96	OK	94	WV	45
IL	84	MO	91	OR	46	WI	34
IN	82	MT	9	PA	79	WY	2

National Climatic Data Center

Table 1

Table 2

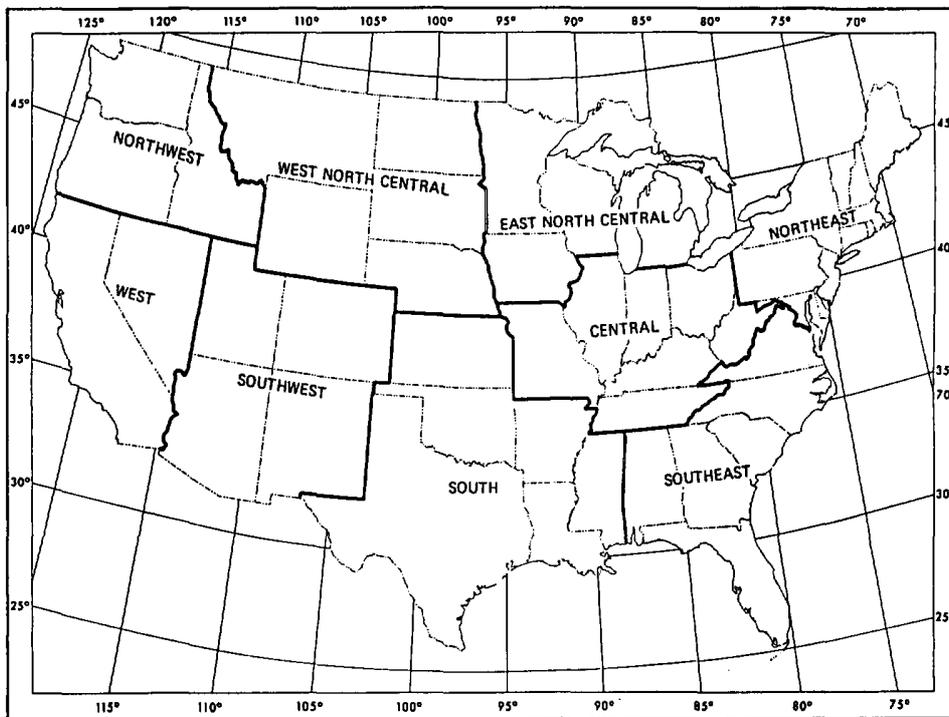


Fig. 1 - Regions used in Table 1, above.

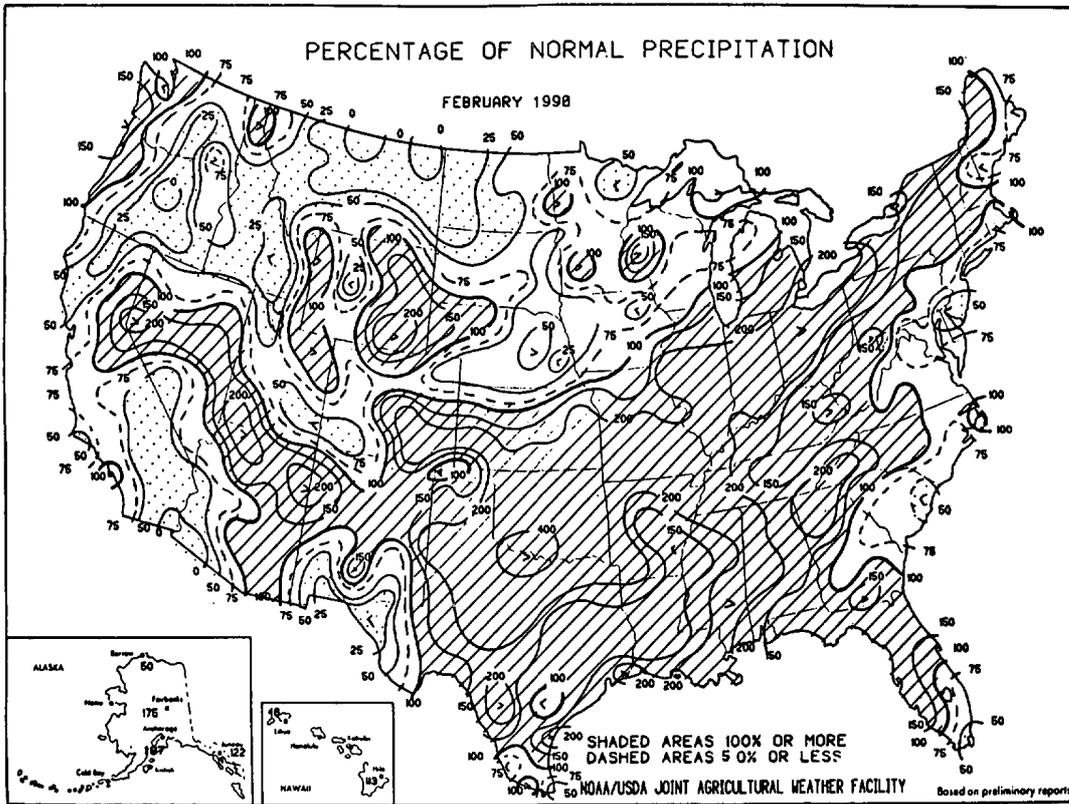


Fig. 2

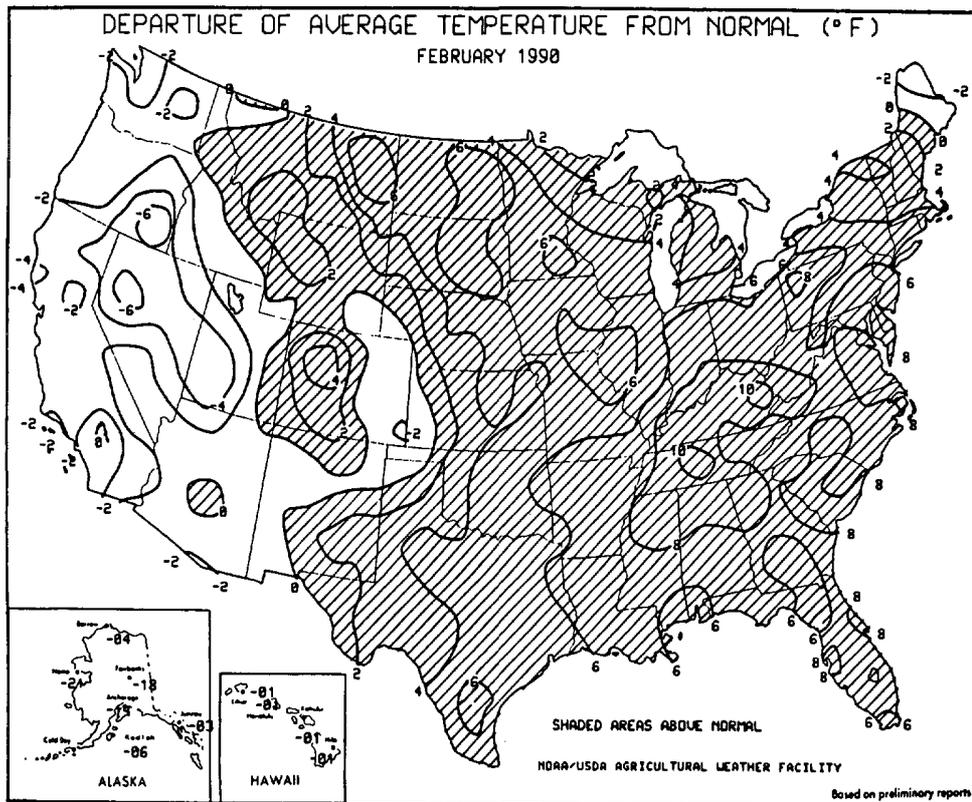
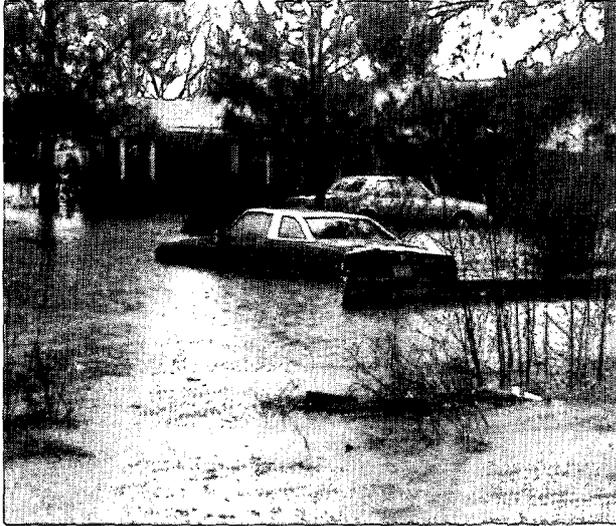


Fig. 3

Above figures reprinted from *Weekly Weather and Crop Bulletin* - March 6, 1990

2. FLOODING AND STORMS IN THE SOUTH

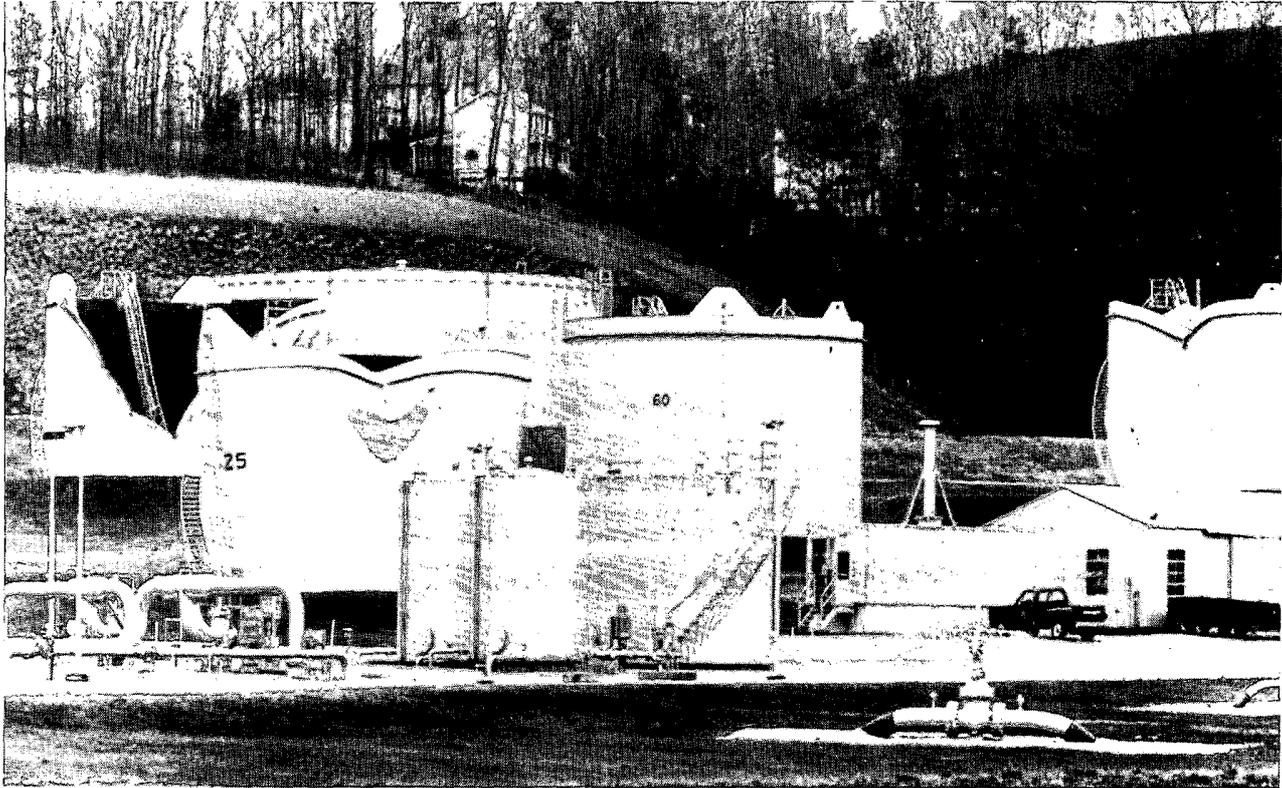
Storm systems containing flooding rains and damaging winds (occasionally tornadoes) made several visits to the South this month. Many parts of Oklahoma reported record or near record February precipitation. Almost every waterway in Mississippi reached or exceeded flood stage sometime during the month.



Parts of Dumas, AR, which had never been flooded, were covered by water as the result of 7.81 inches of rain which fell in twenty hours on the 2nd and 3rd. More than 5 inches of rain had fallen in the previous ten days. **LEFT:** Cars are submerged while parked along Peach Street. **RIGHT:** One of many homes surrounded by floodwaters. Photos courtesy the *Dumas Clarion*.



The same storm system which brought the flooding to Dumas spawned several tornadoes on the evening of the 3rd in Alabama. **LEFT:** A closer view of the damage shown in the cover picture on page 1. **RIGHT:** Tornado damage at Margaret, AL. Photos courtesy *The Birmingham News*; *Birmingham Post-Herald*.



On the 9th and 10th, another major storm rolled across the South, producing damaging winds, heavy rain, and tornadoes. Several of the eleven empty fuel storage tanks at Plantation Pipe Line Company (Helena, AL) were partially collapsed by the high winds on the 10th.

4. OAK HALL, PA TORNADO OF FEBRUARY 16, 1990.

A weak (F1) tornado, probably a "gustnado," touched down just east of State College, PA near Oak Hall, PA. It was only the second known tornado since 1916 in Pennsylvania in February. An abbreviated version of Dr. Gregory S. Forbes' (Penn State University) final report follows:

A "mini" tornado touched down near Oak Hall at about 7:35 p.m. EST Friday evening February 16, 1990. Based upon an inspection of the damage produced by the storm, the tornado first touched down over an open field to the north and east of the Panorama Village Elementary School, located north of old PA Route 322 about one-half mile west of the Route 45 intersection. Areas to the south and west of the touchdown spot experienced only gusts from the accompanying thunderstorm, downing some small branches, and there did not appear to be any structural damage to the school or the Village. The touchdown location was just south of the Route 322 bypass, north of Circle Drive, in College Township, Centre County, PA. The tornado moved toward a direction slightly north of east (moving from 250 degrees on the compass), at a speed estimated as 40-50 mph. The tornado generally remained within the Nittany Valley separating mountain ranges to the northwest and southeast and avoiding the southern foothills of Mt. Nittany. However, the tornado began over a relatively open area on a relatively high spot of the valley floor. The tornado quickly reached F1 intensity as it descended the slope from the "hilltop" to Spring Creek, and weakened shortly after it ascended the sharp embankment to the east of Spring Creek. Thereafter the tornado was rather weak, producing only sporadic damage except within two concentrated swaths. The tornadic

circulation could be detected eastward to Linden Hall, making the path length just under 3 miles. The tornado would have been on the ground for about 3 minutes.

The tornado core's swath of damaging winds was about 150-200 yards wide where it crossed Route 45, but damaging winds extended southward to a radius of about 0.25 miles in what was probably a region of "inflow jets" (but possibly also due to microbursts). One of the inflow jets felled trees and damaged a garage at the Ross Lowder residence, at the extreme western end of the Boalsburg Pike in Boalsburg. The Lowders were watching television at the time of the tornado, which they pinpointed as 7:35 or 7:36 p.m. They were aware of a tornado watch in effect, so when they began to hear a roar above the volume of the television, they began to look out the window and find out what was going on. They reported little rain or lightning, but felt pressure effects and saw the windows bowing out. A medium pine tree and a large oak tree cluster (four one-foot-diameter trunks coming from the same root ball) were uprooted toward the NNW. The oak cluster fell onto the garage, causing damage. Small objects were blown toward the NW. Wind speed was probably 60-75 mph at tree-top level there.

There were no known injuries due to the tornado. The width of the swath of F0 wind damage was about 150-200 yards during the initial portion of its path, and widened to an average of 250-300 yards, but was widened to as much as 550 yards where inflow jet (or microburst) winds extended damage farther south of the tornado path. Isolated tree branch damage due to the gust front of the accompanying thunderstorm produced a swath of intermittent F- to occasional F0 damage that was as much as 1.5 miles wide.

The damage survey was performed on the auto by Greg Forbes. Several students and Accu-Weather, Inc. meteorologists also inspected the damage path, by car and on foot. Their observations have been included in this report.

The peak wind speed estimate of 110 mph is based upon (1) the extent of the damage to trees and road signs and (2) the presence of treefall from the east toward the west. The latter is uncharacteristic of minitornadoes, because on the north side of the tornado the tornado translation and wind rotation are in opposite directions, such that these wind components tend to cancel each other and result in winds much weaker than on the south side of the tornado. Because several trees were downed from the east, it seems probable that east winds were at minimum 60 mph on the north side of the tornado. On the south side of the tornado the winds would have been much stronger. Although adding translation and rotation would yield about 140 mph on the south side of the tornado, a speed there of 110 mph (top F1) seems more consistent with the damage. However, the assumption that the tornado's translational and rotational wind components are additive may not be valid in a situation like this were the tornado was not propagating in a steady state. The tornado appeared to intensify due to the vertical extension or stretching of its funnel on the downgrade between the hill near the 322 bypass and Spring Creek and weaken after ascending the embankment of Spring Creek. During an intensification, the tornado is characterized by strong inflow and accelerations, and the impact of the translation may be minimized. For these reasons, it is felt that a peak wind of 110 mph (top F1) is more realistic than 140 mph in this instance.

The thunderstorm which hit near Oak Hall is believed to have been a remnant of a storm which had hit near Indiana, PA about 6:15 p.m. A funnel cloud had been reported. The Penn State radar had followed that storm, but had not seen anything to indicate a possible tornado as it approached the State College area. Although the thunderstorm was within the ground clutter of the State College area at the time of the tornado, the thunderstorm was observed to pass about 1 km south of the radar (atop Walker Building near the intersection of Routes 322 and 26 in State College). Gusts to 52 mph were

observed from an anemometer on the roof (~75ft AGL) of Walker Building at 7:36 p.m. EST. Sheets of heavy rain fell briefly during the storm, along with occasional lightning to the south. It is believed that the tornado was a "gustnado", a tornado that formed along the gust front--the leading edge of the gusts flowing outward from the accompanying thunderstorm. However, there may have been a small rotation center aloft in the thunderstorm, which had been thought to have possibly been rotating earlier in the evening while in the vicinity of Indiana, PA.

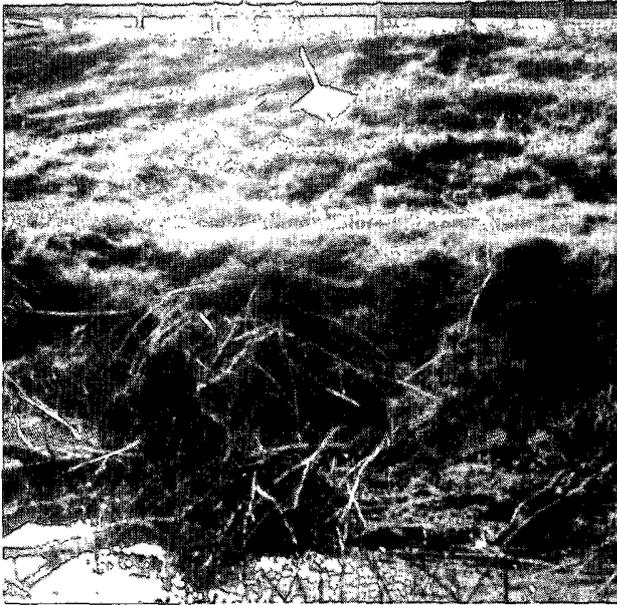
The Penn State radar had seen suggestions of small rotating thunderstorms near Phillipsburg at 7:05 p.m., 15-20 miles SW of Dubois at about 6:15 p.m., and about 30 miles south of Bradford at about 5:28 p.m. Radio station WFRM in Coudersport reported much tree damage, which may have been due to the latter storm. All indications were that the thunderstorms were weakening as they entered Centre County, making the tornado somewhat of a freak event.

Dr. Forbes, forecasters for the Campus Weather Service, and other students had been monitoring the storms on the Penn State radar for several hours Friday evening, and sharing information with the National Weather Service and with numerous radio stations served by the Campus Weather Service. Centre County was under a tornado watch, issued earlier by the National Weather Service, when the tornado hit.

This is believed to have been the only tornado ever reported in Centre County during the month of February. Central Pennsylvania is one of the regions of the United States least frequently visited by tornadoes, and those rare tornadoes are usually in May, June or July. The most intense tornado to ever visit Centre County was on May 31, 1985 when a maxi tornado with winds in excess of 200 mph cut a half-mile-wide swath through the Moshannon and Sproul State Forests north of Interstate 80. That tornado just nicked the extreme northern point of Centre County along the Susquehanna River.



Bell of Pennsylvania workers repair a 200-pair "trunk" line severed by a "flying" road sign (not in photo). Trees in the center of the photo withstood the tornadic wind, while swaths along the edges of the photo converge along the tornado's path. Photo taken toward direction of tornado movement (a bit north of east).



Taken from same spot as previous photo, but looking in opposite direction--toward PA Route 45 just south of Oak Hall where the road sign originated. Another downed road sign rests on bank, and an uprooted tree has been deposited into Spring Creek.



This photo, taken at about the 1.0 mile point along the tornado path, looking SSE, shows a grain bin which was tumbled eastward and which came to rest upside down. Felled trees are shown in the foreground.

Above three photos by Gregory S. Forbes, Penn State University

4. A STORMY DAY(S)!

The satellite picture (below) shows several major weather events in various parts of the United States. A partial list follows:

Northeast and New England

An ice storm on the 15th and 16th was the worst in Connecticut since 1984 leaving 42,000 customers without power. Ten thousand customers were without power in the suburbs of western Boston, MA. New York's Niagara and Orleans counties experienced 5 to 11 inches of snow leaving 40,000 customers without power on the 15th. A tornado (F1) was reported in Pennsylvania on the 16th.

Southeast

Severe thunderstorms occurred in Louisiana and Mississippi on the 15th and 16th. Several states endured heavy rains during the same period: 5 to 11 inches in northern and central Alabama; 5 to 10 inches in northwestern Georgia and flooding rains in southeastern Tennessee.

Southern California and Southwestern Arizona

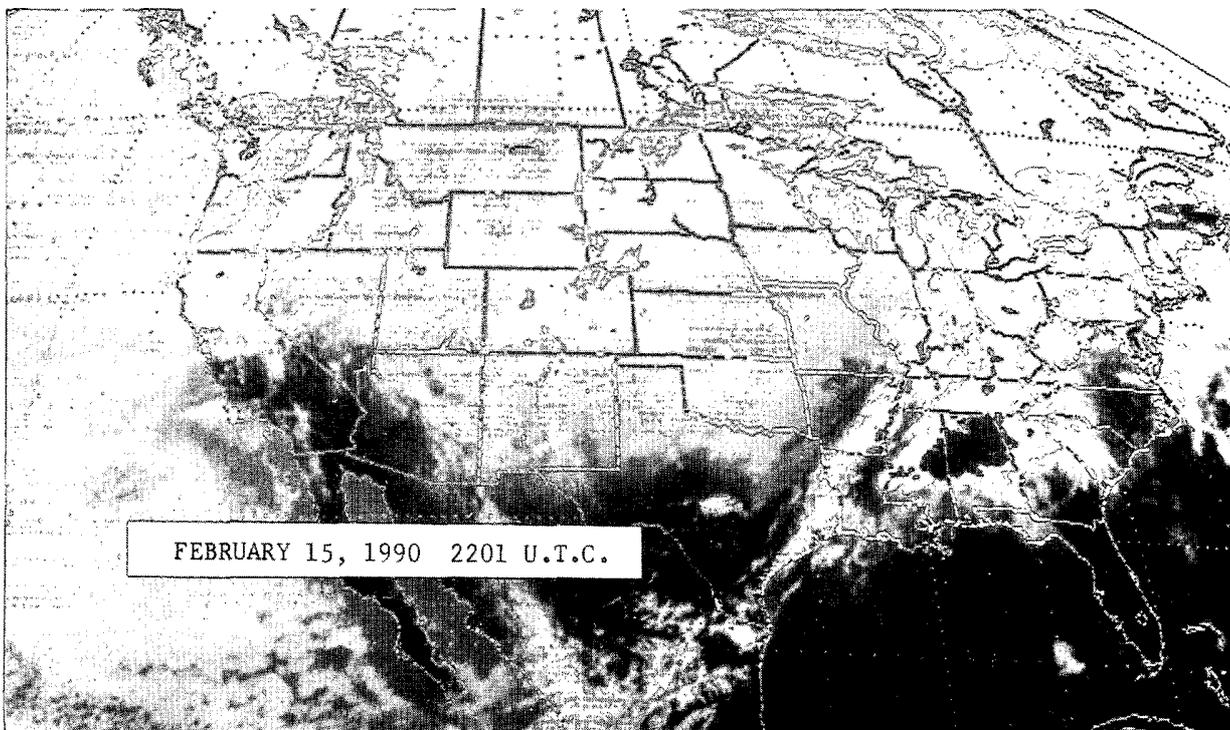
Citrus fruit and strawberries were killed by temperatures as cold as the low 20's on the 15th and 16th.

Pacific Northwest

Three feet of snow fell on the higher Cascades of Oregon and the higher hills of Portland, OR saw one foot of snow from the 14th through the 16th. Snow in northern California and adjacent Nevada resulted in 130,000 homes without power. Echo Summit, CA reported 67 inches of snow from the 14th through the 16th.

Wyoming

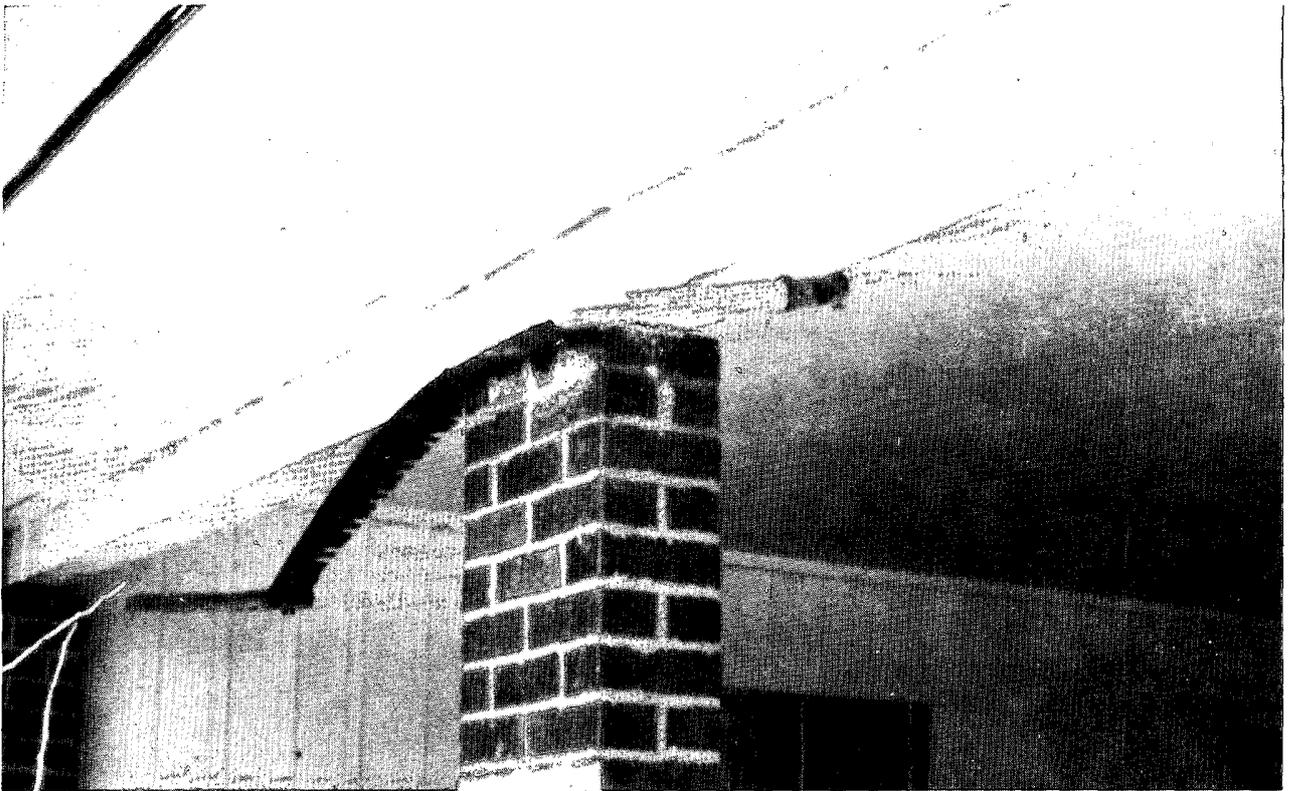
Interstate 80 west of Cheyenne was closed because of high winds blowing snow on the afternoon of the 15th.



Satellite Data Services Division, National Climatic Data Center

ET CETERA

BELIEVE IT OR NOT!



A lumber-jack saw "misplaced" after a tornado near Lake Dockery, Mississippi on February 23, 1977. Here the roof of an open-ended garage has been lifted by the tornado long enough to allow the two-man lumber-jack's saw to fly between the roof and the supporting column. The residents stated that the saw had been hanging up inside the garage prior to the tornado, and that the roof of their adjoining house had swayed up and down several times, but came back down in place, as had the garage roof. Eyewitness accounts of this phenomenon are sometimes dismissed as the imagination of terrified residents, but are probably quite accurate! The house was situated on the northern edge of the F1 tornado, and several trees were downed within 10 m to the south. Winds over the garage were probably about 70 mph. (Photo by Gregory S. Forbes, Penn State Univ., while a graduate student at the University of Chicago.)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

ALABAMA

ALZ-001-003

Lauderdale, Colbert, Franklin, Lawrence, Limestone, Madison, Morgan, Jackson, Marshall, and De Kalb Counties

03 1200CST-2000CST 0 0 6 7 Flash Flooding

A series of thunderstorms moved through the Tennessee Valley area and dumped heavy rain. Flooding was reported on many low-lying roadways, especially in Lawrence, Morgan, and Madison counties. Some urban flooding occurred mainly in Lauderdale and Morgan counties. A Boy Scout Troop was evacuated from Buck's Pocket State Park due to rising water. The park campground is located in a deep canyon about 7 miles north of Geraldine along the Jackson/DeKalb County line. Damage was estimated at approximately \$1 million in the Tennessee Valley area.

Pickens County 03 1835CST 0.5 20 0 0 4 0 Tornado (F0)

A small tornado touched down about 4 miles southeast of Gordo and moved northeast about one-half mile. One house was damaged and a few trees were uprooted. Damage was estimated at about \$8,000. There were no injuries.

Tuscaloosa County 03 1845CST 0.3 20 0 0 4 0 Tornado (F0)

A small tornado touched down in the vicinity of Elrod then moved east a short distance. Trees were uprooted and a mobile home was lifted off its foundation. There were no injuries. Damage was estimated at \$10,000.

Tuscaloosa County 03 1850CST 6.0 40 0 3 6 0 Tornado (F1)

A tornado touched down about 7 miles north-northwest of Tuscaloosa, then moved east about 6 miles. Approximately 25 homes received mostly roof damage and five homes received moderate damage. A small mobile home park was struck. One mobile home was destroyed, about five minutes after a man exited the home for shelter. One truck was blown some distance and was heavily damaged. Other automobiles in the same vicinity were also damaged. Numerous trees were uprooted along the path. There were no deaths, but three slight injuries. Damage estimates were placed at approximately \$1 million.

Jefferson County 03 1935CST 7.0 50 0 2 6 0 Tornado (F1)

A tornado touched down about 12 miles west of downtown Birmingham near Mulga, then moved east about 7 miles through Bayview and Forestdale. Two homes were destroyed and numerous homes received roof damage. Numerous trees were uprooted. Two people received minor injuries, but there were no fatalities. Damage estimates were placed at approximately \$750,000.

Jefferson County 03 1948CST 3.0 50 0 15 6 0 Tornado (F1)

A tornado touched down about 6 miles north of downtown Birmingham then moved east about 3 miles through sections of Fultondale, Walker's Chapel, and Coalburg. A house and a mobile home were totally destroyed. Approximately 50 homes received major damage. Nearly 100 homes received minor damage. Three churches and a shopping center were heavily damaged. Fifteen people received minor injuries, mostly from flying glass. There were no deaths. Damage estimates were placed at nearly \$3 million.

Jefferson County 03 2000CST 2.0 50 0 0 6 0 Tornado (F1)

A tornado touched down near the intersection of Interstates 459 and 59, then moved over a two-mile path through the Trussville area. Several tractor-semitrailers were blown off the freeway. Three houses were destroyed, and several others were heavily damaged. There were no deaths or injuries. Numerous trees and power lines were blown down. Damage estimates were placed at approximately \$750,000.

Shelby County 03 2005CST 0 0 0 0 Thunderstorm Wind

Several large trees were blown down at Vandiver.

Talladega County 03 2037CST 0 0 0 0 Hail (1.00)
03 2045CST 0 0 4 0 Thunderstorm Wind

Quarter-size hail fell in Talladega. Strong thunderstorm winds destroyed a home about 5 miles north of Talladega. Damage estimates were approximately \$50,000.

Saint Clair County 03 2105CST 2.0 50 0 11 6 0 Tornado (F1)

A tornado moved east through about a 2-mile path in the Margaret community. There were no fatalities, but 11 people were slightly injured. About 30 homes received damage. Five homes and one mobile home were destroyed. Numerous trees were uprooted. Damage estimates were placed at approximately \$1 million.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

ALABAMA

Madison County	09 2020CST 09 2245CST	0 0 0 0	? ? ? ?	Thunderstorm Wind Thunderstorm Wind
At 2020 CST strong thunderstorm winds knocked about twelve mobile homes off their foundations in Madison. Also, at 2245 CST in the Chase area, several houses had parts of their roofs blown off. Trees were also uprooted in the same area.				
Colbert County	09 2030CST	0 0	? ?	Thunderstorm Wind
About 10 miles east of Muscle Shoals many trees were uprooted and a mobile home was blown off its foundation.				
Lawrence County	09 2130CST	0 0	5 ?	Thunderstorm Wind
Strong thunderstorm winds severely damaged a home and a mobile home in Midway. Trees and power lines were blown down in the same area. Damage estimates were placed at approximately \$75,000.				
Lamar County	09 2145CST	0 0	0 0	Thunderstorm Wind
Trees were blown down 5 miles west of Vernon.				
Limestone County	09 2206CST 09 2220CST	0 0 0 0	5 0 5 0	Thunderstorm Wind Thunderstorm Wind
At 2206 CST strong thunderstorm winds damaged a mobile home and blew trees down about 2 miles west of Tanner. At 2220 CST several mobile homes were knocked off their foundations near Belle Mina. There were no injuries. Damage estimates were placed at approximately \$100,000.				
Walker County	09 2320CST 09 2323CST 09 2340CST 09 2355CST	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	Thunderstorm Wind Funnel Cloud Thunderstorm Wind Thunderstorm Wind
At 2320 CST trees were blown across U.S. 78 between Carbon Hill and Eldridge. At 2323 CST a funnel cloud was seen moving northeast over Carbon Hill. At 2340 CST trees were blown down in the city of Jasper. At 2355 CST trees were blown down about 14 miles southwest of the city of Jasper.				
De Kalb County	09 2332CST	0 0	? ?	Thunderstorm Wind
Trees and power lines were blown down near Collinsville.				
Winston County	09 2346CST 09 2346CST	0 0	? ?	Funnel Clouds Thunderstorm Wind
Numerous funnel clouds were seen around Lewis Smith Lake near Arley. Trees were blown down in the same area.				
Cullman County	09 2354CST	0 0	0 0	Thunderstorm Wind
Numerous trees and power lines were blown down in the Lewis Smith Lake area about 13 miles southwest of the city of Cullman.				
Choctaw County	10 0136CST	0 0	? ?	Thunderstorm Wind
Several houses were extensively damaged at Pennington. Numerous trees and power lines were blown down in the same area.				
Pickens County	10 0140CST	0 0	? ?	Thunderstorm Wind
The doors on a fire station were damaged in Aliceville.				
Sumter County	10 0140CST	0 0	? ?	Thunderstorm Wind
Numerous trees and power lines were blown down at Livingston. One house was destroyed by fallen trees.				
Greene County	10 0200CST	0 7	6 0	Thunderstorm Wind
Trees were blown down along Interstate 20/59 near Knoxville. Twenty-five homes and mobile homes in Green County were damaged, eight of those destroyed. Several cars were crushed by falling trees. Damage was heaviest in the Union and Mantua areas. There were seven minor injuries. Damage estimates were placed at approximately \$500,000.				

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

ALABAMA

Tuscaloosa County	10	0200CST			0	11	6	0	Thunderstorm Wind (G67)
At 0200 CST strong straight-line thunderstorm winds reached 67 mph at the Tuscaloosa Airport. The extreme winds caused widespread damage throughout the city of Tuscaloosa and Tuscaloosa County. Twenty-three houses were destroyed, 134 received major damage, and 392 received minor damage. Twenty-one mobile homes were destroyed and 48 received major damage. Thousands of trees were blown down, many falling on houses and vehicles. There were 10 minor injuries and one serious. There were no deaths. Damage estimates were placed at approximately \$4 million.									
Hale County	10	0205CST			0	0	5	0	Thunderstorm Wind
Trees were blown down at Moundville. Several houses and mobile homes were damaged. Six businesses were damaged, most with the roofs blown off and some with broken windows. The steeple of a church was knocked off. There were no injuries. Damage estimates were placed at \$150,000.									
Marengo County	10	0205CST			0	0	5	?	Thunderstorm Wind (G65)
Thunderstorm winds gusted to 65 mph at Demopolis. Trees were blown down at several locations. Two mobile homes were destroyed at Thomaston. Four others were damaged. Damage estimates were placed at \$75,000.									
Dallas County	10	0220CST			0	0	?	?	Thunderstorm Wind
	10	0225CST			0	0	?	?	Thunderstorm Wind
	10	0230CST			0	0	?	?	Thunderstorm Wind
	10	0235CST			0	0	?	?	Thunderstorm Wind
	10	0240CST			0	0	?	?	Thunderstorm Wind
	10	0300CST			0	0	?	?	Thunderstorm Wind
At 0220 CST a machine shop was damaged at Marion Junction. At 0225 CST trees were blown down about 2 miles south of Orrville. At 0230 CST trees were blown down in Selma. At 0235 CST several mobile homes were blown over about 3 miles north of Selma. At 0240 CST the roof was blown off the Orrville Fire Department building. At 0300 CST trees and power lines were blown down at Selma.									
Bibb County	10	0225CST			0	3	6	5	Thunderstorm Wind (G67)
At 0225 CST strong straight-line thunderstorm winds reached 67 mph at Centreville. At Green Pond, the roof, chimney, and walls of a house collapsed on a man inside, nearly severing his leg. Throughout the county, 13 homes received major damage, and 40 received minor damage. Twelve mobile homes received major damage, and 35 received minor damage. Timber damage was also heavy. One estimate placed a timber area as large as 20,000 acres destroyed. There were three injuries, one serious. Damage estimates were placed at approximately \$1 million.									
Clarke County	10	0230CST			0	0	?	?	Thunderstorm Wind
Trees were blown down 8 miles east and 1 mile south of Grove Hill.									
Jefferson County	10	0230CST			0	5	6	0	Thunderstorm Wind
Strong damaging straight-line thunderstorm winds moved through the Birmingham area around 0230 CST. Winds in many areas were estimated to be 70 to 80 mph throughout mainly the southern half of Jefferson County. Thousands of trees were blown onto houses, vehicles, and power lines causing widespread damage. Several aircraft were destroyed and 21 others were damaged at the Bessemer Airport. The storm destroyed several homes, damaged about 40 homes, and uprooted trees in about a 10-square-mile area stretching from roughly Bessemer to Hoover. One hundred twenty-five thousand homes were left without power. According to an Alabama Power Company source, power outages over north and central Alabama as a result of this storm ranked with outages caused by an ice storm in 1982 and by Hurricane Frederic in 1979. Five people were injured, but there were no fatalities. Seventeen families were left homeless and damage estimates were placed as high as \$4 million.									
Washington County	10	0230CST			0	0	?	?	Thunderstorm Wind
Trees were blown down at Chatom and a house was damaged at Yellow Pine.									
Wilcox County	10	0230CST			0	0	?	?	Thunderstorm Wind
	10	0300CST			0	0	?	?	Thunderstorm Wind
At 0230 CST trees were blown down in many areas in the county. At 0300 CST trees and power lines were again blown down at scattered locations.									
Shelby County	10	0242CST			0	22	7	0	Thunderstorm Wind
	10	0242CST	1.0	30	0	0		0	Tornado (F1)
Strong damaging straight-line thunderstorm winds estimated at 70 to 80 mph caused widespread damage. Hardest hit areas were in the cities of Helena, Pelham, Alabaster, Riverchase, and									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

ALABAMA

Coosa County	10	0330CST			0	0	?	?	Thunderstorm Wind
Trees and power lines were blown down at Rockford.									
Elmore County	10	0340CST			0	0	?	?	Thunderstorm Wind
	10	0345CST			0	0	?	?	Thunderstorm Wind
At 0340 CST trees and power lines were blown down in Wetumpka. A portable building was also blown over. At 0345 CST an airport hangar was damaged and an airplane building roof was blown off.									
Cleburne County	10	0350CST			0	1	6	0	Thunderstorm Wind
Strong thunderstorm winds ripped through much of the county. Most of the damage occurred around Heflin where 10 mobile homes and 3 houses were destroyed. Another 22 houses received light to moderate damage. Many more mobile homes received moderate to severe damage. One person received a minor injury. Damage estimates were placed at approximately \$1 million.									
Clay County	10	0355CST	0.5	20	0	5	5	0	Tornado (F1)
Three homes were destroyed by a small tornado that touched down about 7 miles northwest of Ashland, then moved east through the Clairmont Springs area. There were 5 minor injuries. Damage estimates were placed at \$200,000. Also, trees were blown down throughout the county.									
Macon County	10	0355CST			0	0	?	?	Thunderstorm Wind
A large sign was blown down on Interstate 85 near Tuskegee.									
Tallapoosa County	10	0355CST			0	0	?	?	Thunderstorm Wind
Trees were blown down at Jacksons Gap.									
Randolph County	10	0400CST			0	0	6	0	Thunderstorm Wind
Strong straight-line thunderstorm winds destroyed several mobile homes. Several other homes and vehicles were severely damaged. Four chicken houses were destroyed. The heaviest damage occurred in Wedowee, Woodland, and Graham. Large numbers of trees were uprooted throughout the county. There were no injuries. Damage estimates were placed at approximately \$750,000.									
Bullock County	10	0405CST			0	0	?	?	Thunderstorm Wind
Trees were blown down at scattered locations throughout the county.									
Chambers County	10	0405CST			0	0	?	?	Thunderstorm Wind
Trees and power lines were blown down at Lafayette. Also in Lafayette, several windows were blown out and the clock face on the Courthouse dome was destroyed. A school cafeteria roof and a mobile home were damaged in the same area.									
Conecuh County	10	0405CST			0	0	?	?	Thunderstorm Wind (665)
A wind gust to 65 mph was reported at Evergreen. In the same area trees were uprooted. There was structural damage to a few buildings and several cars were crushed by fallen trees.									
Escambia County	10	0412CST			0	0	?	?	Thunderstorm Wind
A barn was unroofed and several trees were blown down 2 miles north of Flomaton.									
Lee County	10	0415CST			0	0	?	?	Thunderstorm Wind
A house was damaged and trees were blown down near Valley.									
Butler County	10	0420CST			0	0	0	0	Thunderstorm Wind
Trees were blown down throughout the county.									
Covington County	10	0430CST			0	0	?	?	Hail (0.75)
	10	0545CST			0	0	?	?	Thunderstorm Wind
At 0430 CST nickel-size hail fell at Red Level. At 0545 CST power lines were blown down at Opp.									
Barbour County	10	0505CST			0	0	?	?	Thunderstorm Wind
Trees were blown onto power lines at Clio and Clayton.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

ALABAMA

Coffee County	10	0515CST			0	0	?	?	Thunderstorm Wind
Trees were blown down at Victoria.									
Dale County	10	0520CST							Funnel Cloud
A funnel cloud was seen moving northeast over Ozark.									
Russell County	10	0600CST			0	0	?	?	Thunderstorm Wind
In Phenix City three or four towers were blown down. Numerous trees and power lines were blown down. Numerous houses sustained roof and window damage. Also, several mobile homes were damaged.									
Mobile County	10	0655CST			0	0	?	?	Thunderstorm Wind
Trees were uprooted about 23 miles southwest of Mobile very close to the Alabama/Mississippi state line.									
Baldwin County	10	0730CST			0	0	?	?	Thunderstorm Wind
	10	0815CST			0	0	?	?	Hail (0.75)
At 0730 CST power lines were blown down and a plate glass window was blown out at Robertsdale. At 0815 CST dime-size hail fell at Stapleton.									
Sumter County	15	1420CST	0.3	20	0	0	0	0	Tornado (F0)
A small tornado touched down 1 mile north of Livingston and moved northeast a short distance. There were no injuries or damage.									
Hale County	15	1515CST			0	0	0	0	Thunderstorm Wind
Trees were blown onto a road 7 miles south of Moundville.									
ALZ-001-009									
Lauderdale, Colbert, Franklin, Lawrence, Limestone, Madison, Morgan, Jackson, Marshall, DeKalb, Cullman, Blount, Marion, Winston, Lamar, Fayette, Walker, Jefferson, Shelby, Tuscaloosa, Pickens, Sumter, Greene, Hale, Bibb, Perry, Chilton, Cherokee, Etowah, Saint Clair, Calhoun, Cleburne, and Talladega Counties									
Talladega County	15	1600CST-							
	16	1200CST			3	0	7	?	Flash Flooding
Five to 11 inches of rain fell over a large part of north and central Alabama beginning late Thursday and lasting until midday Friday. Many creeks and rivers overflowed their banks causing major damage and causing hundreds of people to evacuate their homes in many counties. The widespread rainfall washed out many bridges and flooded many roads and streets. Numerous motorists became trapped in their vehicles and required rescue. One man drowned when his car went off a barricaded section of a road a few miles east of Gaylesville in Cherokee County. A woman drowned while trying to wade a swollen creek, also in Cherokee County. A Shelby County man drowned while trying to swim from his swamped truck. Damage estimates were placed at approximately \$19 million statewide. M63V F760 M33V.									
Talladega County	15	1940CST			0	0	0	0	Hail (1.00)
Quarter-size hail fell at Talladega.									
Coosa County	16	0305CST			0	4	?	?	Thunderstorm Wind
Strong thunderstorm winds heavily damaged four homes and destroyed several mobile homes at Goodwater. Also, two car washes were destroyed. There were four minor injuries.									
Dallas County	16	0700CST			0	0	?	?	Thunderstorm Wind
	16	0805CST			0	0	?	?	Thunderstorm Wind
At 0700 CST three houses were damaged and power lines were blown down at Plantersville. At 0805 CST trees were blown onto cars three miles north of Selma.									
Chilton County	16	0705CST			0	0	?	?	Thunderstorm Wind
Strong thunderstorm winds damaged a fire station and two mobile homes at Cooper.									
Autauga County	16	0730CST			0	0	0	0	Thunderstorm Wind
Power lines were blown down near Marbury.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	ROADS	

ALABAMA

Wilcox County	16	0745CST			0	0	?	?	Thunderstorm Wind
									Two houses were damaged and trees were blown down in the McWilliams community.
Clay County	16	0746CST			0	0	?	?	Thunderstorm Wind
									Six houses sustained roof damage and one mobile home was destroyed at Mellow Valley.
Coosa County	16	0750CST			0	0	?	?	Thunderstorm Wind
									Trees were blown down about 4 miles north of Rockford.
Elmore County	16	0750CST			0	0	?	?	Thunderstorm Wind
	16	0815CST			0	0	?	?	Thunderstorm Wind
									At 0750 CST in Deatsville barns were damaged and the siding was blown off a residence. At 0815 CST trees were blown down at scattered locations in the county.
Tallapoosa County	16	0815CST			0	0	?	?	Thunderstorm Wind
									Several houses were damaged at Hackneyville.
Randolph County	16	0830CST			0	0	0	0	Hail (0.75)
									Dime-size hail fell at Wadley.
Autauga County	16	0840CST			0	0	0	0	Thunderstorm Wind
									Large tree limbs were blown onto a road 3 miles north of Prattville.
Monroe County	16	0850CST			0	0	?	?	Thunderstorm Wind
									Street signs were blown down in Monroeville.
Montgomery County	16	0855CST			0	0	?	?	Thunderstorm Wind
									Trees were blown down and the roof of an apartment building was damaged in east Montgomery.
Butler County	16	0907CST			0	0	?	?	Thunderstorm Wind
	16	0915CST			0	0	?	?	Thunderstorm Wind
									At 0907 CST trees and power lines were blown down at Chapman. At 0915 CST trees were blown onto roads in the Georgiana vicinity.
Conecuh County	16	0915CST			0	0	?	?	Thunderstorm Wind
									The roofs were blown off several buildings in Repton.
Chambers County	16	0945CST			0	0	0	0	Thunderstorm Wind
									Trees were blown down about 5 miles northwest of Lanett.
Macon County	16	1000CST			0	0	?	?	Thunderstorm Wind
									Large tree limbs were blown onto power lines about 5 miles north of Tuskegee.
Crenshaw County	16	1001CST			0	0	?	?	Thunderstorm Wind
									Trees were blown onto roads 2 miles south of Rutledge and a barn was damaged 5 miles north of Vidette.
Coffee County	16	1010CST			0	0	?	?	Thunderstorm Wind
									The roof of a house was blown off at Elba.
Covington County	16	1010CST			0	0	0	0	Thunderstorm Wind
	16	1025CST			0	0	?	0	Thunderstorm Wind
									Large tree limbs were blown down at Sanford at 1010 CST. At 1025 CST a fallen tree damaged a house in Opp.
Pike County	16	1010CST			0	0	?	?	Thunderstorm Wind
									Trees and power lines were damaged near Henderson.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			K	I	P	S	

ALABAMA

Barbour County	16	1020CST							
	16	1040CST			0	0	0	0	Funnel Cloud Thunderstorm Wind
At 1020 CST a funnel cloud was seen moving east near Spring Hill. At 1040 CST trees were blown down 2 miles south of Louisville.									
Covington County	16	1030CST			0	0	?	?	Thunderstorm Wind
Several buildings and a barn were damaged in the vicinity of Opp.									
Dale County	16	1110CST			0	0	?	?	Thunderstorm Wind
	16	1120CST			0	0	0	0	Thunderstorm Wind
A large tree was blown onto a house 3 miles north of Ozark. In Daleville, signs were blown down, the roofs of several houses were damaged, and a plane was overturned. At 1120 CST trees were blown down in the vicinity of Skipperville.									
Geneva County	16	1125CST							Funnel Cloud
A funnel cloud was seen moving east about 5 miles east of Samson.									
Houston County	16	1135CST			0	0	?	?	Thunderstorm Wind
	16	1145CST			0	0	?	?	Thunderstorm Wind
At 1135 CST a metal awning was blown off a house in Dothan. Large trees were blown down in the same area. At about the same time the roof of a business was blown off, another house was damaged, and power lines were blown down. At 1145 CST parts of a tin roof were blown off 3 miles northwest of Dothan.									
Henry County	16	1145CST			0	0	0	0	Thunderstorm Wind
Trees were blown down about 4 miles west of Abbeville.									
Baldwin County	22	0245CST			0	0	0	0	Thunderstorm Wind
Strong thunderstorm winds blew trees onto a road about 3 miles southeast of Stockton.									
Dallas County	22	0407CST			0	0	?	?	Thunderstorm Wind
Two mobile homes were damaged, and trees and power lines were blown down in Selma.									
Covington County	22	0551CST	1.5	50	0	10	6	0	Tornado (F1)
A tornado touched down at Opp and moved east about one and one-half miles. There were 10 minor injuries. Two businesses were destroyed and eleven others received moderate damage. Twenty-five homes received minor damage, fifteen moderate damage. Three mobile homes were damaged, two destroyed. A high school and National Guard Armory were also damaged. Hundreds of trees were downed. Damage estimates were placed at approximately \$500,000.									
Coffee County	22	0620CST			0	0	?	?	Thunderstorm Wind
Trees and power lines were blown down and a few outbuildings were damaged at Elba.									
Dale County	22	0630CST			0	0	0	0	Thunderstorm Wind
Trees and power lines were blown down in the vicinity of Clayhatchee.									
Pike County	22	0630CST			0	4	?	0	Thunderstorm Wind
A house was damaged and power lines were blown down 10 miles south of Troy. In the same area, a pickup truck was blown into a tree. Four persons were slightly injured in a damaged house.									
Bullock County	22	0645CST			0	0	?	?	Thunderstorm Wind
A business was damaged and trees and power lines were blown down in the vicinity of Union Springs.									
Houston County	22	0705CST			0	0	?	?	Thunderstorm Wind
Trees and power lines were blown down in Dothan.									
Henry County	22	0715CST			0	0	?	?	Thunderstorm Wind
	22	0725CST			0	0	?	?	Thunderstorm Wind
At 0715 CST trees were blown onto power lines in the vicinity of Headland. At 0725 CST trees were blown down at Abbeville.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

ALABAMA

Houston County	22	0735CST			0	0	?	?	Thunderstorm Wind
	22	0740CST			0	0	?	?	Thunderstorm Wind (G76)
At 0735 CST several mobile homes and a barn were damaged at Taylor. Power lines were blown down in the same area. At 0740 CST winds were measured at 76 mph at Dothan.									
Macon County	22	0735CST			0	0	?	?	Thunderstorm Wind
	22	0745CST			0	0	?	?	Thunderstorm Wind
At 0735 CST a mobile home was damaged and was blown onto a highway in the Tuskegee vicinity. At 0745 CST one house was damaged and power poles and trees were blown down about 5 miles northeast of Tuskegee.									
Barbour County	22	0740CST			0	1	?	?	Thunderstorm Wind
	Two mobile homes were destroyed in the vicinity of Eufaula. In addition, ten to twelve mobile homes received moderate damage. There was one minor injury. Trees and power lines were blown down in the same area.								
Lee County	22	0801CST			0	0	?	?	Thunderstorm Wind (G64)
	22	0815CST			0	1	?	?	Thunderstorm Wind
	22	0820CST			0	0	?	?	Thunderstorm Wind
At 0801 CST thunderstorm winds gusted to 64 mph at the National Weather Service Office in Auburn. At 0815 CST, a student at Auburn University was injured by a falling tree limb. Two buildings were damaged and trees were blown down in the same vicinity. Two other schools in the same area were damaged by falling trees. Also, in Opelika, a few buildings were damaged. At 0820 CST, trees and power lines were blown down at Gold Hill.									
Chambers County	22	0830CST			0	0	?	?	Thunderstorm Wind
Trees and power lines were blown down 7 miles southwest of Lafayette.									
Dale County	22	0842CST			0	0	?	?	Thunderstorm Wind
Large tree limbs were blown down at scattered locations around the county.									

February 1990 was a particularly active severe weather month in Alabama. Flash flooding claimed 3 lives and produced an estimated \$20 million in property damage. Tornadoes injured 46 people and caused approximately 7 and one-half million dollars in damage. Straight-line thunderstorm winds injured 85 people and caused approximately \$25 million in damage. There were no known deaths that resulted directly from tornadoes or thunderstorm winds.

ARIZONA

AZZ-002-003-004-005 Central Mountains	1-2	Morning			0	0	0	0	Heavy Snow
Much of Arizona's high country had its best winter storm of the season with several inches of snow during the 1st and 2nd days. Flagstaff airport received 16 inches of snow and the north rim of the Grand Canyon had 26 inches. To the south of Flagstaff, Pinewood reported 2-foot drifts. Schools in Prescott were forced to close on the 2nd due to the snow. Minor traffic accidents along Interstate 40 near Kingman were blamed on the icy roads.									
AZZ010 Southeast Arizona Fort Huachuca	14	0410MST			0	0	0	0	High Wind (G66)
AZZ010 Southeast Arizona Bisbee	14	1500MST			0	0	4	0	High Wind
A strong low pressure system moved across the state and brought high winds to most areas. Winds were especially strong near Sierra Vista. Nearby Fort Huachuca recorded a peak gust of 76 mph. Later in the afternoon, winds downed some large trees, street signs, and caused some roof damage in the town of Bisbee.									
AZZ008 South Central Deserts Phoenix Area	15-16	AM			0	0	0	?	Cold
Temperatures dropped into the low to mid 20's in many outlying areas. Some citrus crops were lost and some young citrus trees were damaged by the freeze.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

ARKANSAS

White County Rose Bud El Paso	09	1300CST			0	0	?	?	Thunderstorm Winds
A severe thunderstorm caused tree and roof damage from El Paso north to Rose Bud. High winds uprooted trees, took roofs from homes and destroyed barns around Rose Bud. About 30 homes sustained some type of damage.									
White County Hickory Flat	09	1315CST			0	0	?	?	Hail (1.50)
Pulaski County Little Rock	09	1330CST			0	0	?	?	Hail (1.75)
Golf ball-size hail fell in west Little Rock.									
Pulaski County Little Rock	09	1337CST			0	0	?	?	Hail (1.00)
One-inch hail covered the ground in southwest Little Rock.									
Pulaski County Little Rock North Little Rock	09	1340CST			0	0	?	?	Hail (1.00)
One-half to one-inch hail covered the ground at several locations in west Little Rock and downtown North Little Rock.									
Jackson County Newport	09	1343CST			0	0	?	?	Thunderstorm Winds
Thunderstorm winds downed several electrical structures.									
Pulaski County North Little Rock	09	1344CST			0	0	?	?	Hail (1.00)
Miller County Genoa	09	1345CST			0	0	?	?	Hail (1.00)
Pulaski County North Little Rock	09	1347CST			0	0	?	?	Hail (1.75)
Golf ball-size hail damaged some cars at a vocational tech school in North Little Rock.									
Pulaski County North Little Rock	09	1353CST			0	0	?	?	Hail (1.00)
Clark County DeGray Lake	09	1435CST			0	0	?	?	Thunderstorm Winds
Thunderstorm winds downed trees and power lines.									
Poinsett County McCormick	09	1440CST			0	0	?	?	Thunderstorm Winds
Several grain bins were damaged by thunderstorm winds near County Road 51.									
Prairie County Des Arc	09	1440CST			0	0	?	?	Hail (0.75)
Prairie County Des Arc	09	1440CST			0	0	?	?	Thunderstorm Winds
Thunderstorm winds downed trees in Des Arc causing minor damage to buildings.									
Mississippi County 5 NW Osceola	09	1450CST			0	0	?	?	Thunderstorm Winds
Thunderstorm winds blew a pickup truck with a camper off I-55, and also blew a house, which was being moved, on its side blocking the interstate.									
Jefferson County White Hall	09	1455CST			0	0	?	?	Hail (1.75)
Woodruff County Cotton Plant	09	1510CST			0	0	?	?	Hail (1.75)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

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		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

ARKANSAS

Mississippi County Luxora	09	1515CST	.25	50	0	0	?	?	Tornado (F0)
A small tornado touched down briefly at the intersection of Arkansas 158 and Meadow Road. A couple of metal signs were blown down.									
Union County El Dorado	09	1525CST			0	0	?	?	Hail (0.75)
Columbia County 5 S Taylor	09	1620CST			0	0	?	?	Hail (0.75)
Faulkner County Springhill	15	0400CST			0	0	3	0	Lightning
A lightning strike killed 10 cows at a farm in Springhill.									
Faulkner County Conway White County Searcy Kensett Judsonia	15	0600CST			0	0	?	?	Flash Flood
Rainfall of about 2 inches in one hour caused flash flooding across central Arkansas. Streets were closed in Conway along with some businesses suffering some water damage. Near Searcy, Deener Creek overflowed and flooded several roads. A few bridges were also under water in White County.									
Greene County Paragould	15	0700CST			0	0	?	?	Flash Flood
Rainfall of 2 to 4 inches fell early Thursday morning, February 15, and sent Eight Mile Creek over its banks throughout Paragould. Members of two households had to be evacuated by boat because of high water. On Case Street, at 0645 CST, there was no water. By 0730 CST the water was two-and-a-half-feet deep.									
Ashley County 12 W Crossett	15	1620CST			0	0	?	?	Hail (1.75)
Golf ball-size hail fell at the Highway 82 Bridge over the Ouachita River.									

CALIFORNIA, Northern

Kern County Tehachapi Valley	01	0930PST			0	0	0	0	High Wind
Sustained winds of 35 knots with gusts to 50 knots were reported at a gliderport in the Tehachapi Pass along Highway 58.									
CA09, CA10 NV01, NV02	03 04	1600PST- 1200PST			0	0	0	0	Winter Storm
A vigorous cold front brought snow amounts in the 12- to 24-inch range over the Sierra Nevada. Snow occurred at elevations of 1,500 feet in the northern Sierra to 4,000 feet in the southern Sierra.									
CA03-CA05	15	0100PST- 0800PST			0	0	0	5	Hard Freeze
Temperatures dropped to the upper teens and lower 20's causing damage to fruit trees, strawberry plants, and commercial nurseries.									
CA07-CA10 NV01, NV02	15 17	2300PST- 2300PST			0	0	5	0	Winter Storm
The heaviest snowfall of the 1989-90 winter occurred as a cold, moist Pacific storm moved through northern and central California. Snow accumulated as low as sea level with significant amounts above 1,000 feet. Snow amounts varied from 12 inches to as much as 67 inches (at Echo Summit). Winds gusted to above 40 knots and combined with the wet snow to down trees, power lines, and telephone lines. One hundred thirty-five thousand homes were without power, and telephone service was knocked out to 70,000 customers. Major roads across the Sierra were closed for a time, and on the day following the storm Interstate 80 was closed due to a mud slide which covered a 400-foot section of roadway to a depth of 7 feet.									

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

CALIFORNIA, Southern

CAZ001-012-013
CAZ018-019

1 1045PST 0 1 ? 0 High Wind

Strong winds followed a fast moving front as it moved through the Southland. Sixty mph winds were reported in the Tehachapi Mountains of southern Kern County. Some southern California Edison Power Company customers in the communities of Palm Springs and Hemet in Riverside County and Victorville in San Bernardino County were without power due to the high winds, also a high power line was knocked out in the Hollywood area. Strong winds blew out a glass pane in an office building in downtown Los Angeles causing minor injuries to a pedestrian. Dozens of trees were uprooted in Silverlake and Echo Park, both near downtown Los Angeles.

CAZ013

4 0530PST 0 0 0 0 Heavy Snow

Los Angeles County

4 0740PST 1 0 0 0 Flash Flood

A cold front swept through southern California bringing some heavy snow to the mountains in San Bernardino County. Twenty-four hour amounts included 12 inches at Arrowbear, 13 inches at Greenvalley, and 10 inches over 12 hours at Wrightwood. Rain in the lower elevations caused a storm channel in the Glendale area to become swollen and swept a man down the channel before rescuers could respond. The man was later spotted face down tangled in brush and then was dragged unconscious from the water. He was pronounced dead at a nearby hospital. M390

CAZ011-012-013
CAZ018-019

13 1000PST-
14 1515PST 0 0 0 0 High Wind

CAZ011-012

15 0600PST 0 0 0 7 Freeze

A storm system with very cold air developed over the western United States resulting in strong gusty west to northwest winds over southern California. Dagget, in San Bernardino County, reported sustained winds of 42 mph with gusts to 52 mph. There were no reports of major damage due to these winds. Following the strong winds very cold air pushed in and settled into the coastal and intermediate valleys of southern California. Subfreezing temperatures caused an estimated \$24 million damage to strawberry, citrus, and avocado crops in Ventura County.

CAZ018

16 1530PST-
18 2000PST 0 0 ? 0 High Wind

CAZ013

17 0900PST 0 1 0 0 Heavy Snow

Los Angeles County

17 0615PST 0 0 ? 0 Flood

A major winter storm from an upper level low over the Pacific Northwest dumped 3 to 4 feet of snow over the mountains of southern California. The higher elevations of the San Gabriel and San Bernardino mountains were hardest hit by the storm. Heavier 24-hour amounts included Forest Falls with 20 inches, Arrowbear 25 inches, and Green Valley 30 inches with a storm total of 48 inches. Lake Arrowhead reported 33 inches of snow while the city of Big Bear Lake recorded 46 inches of snow for the storm. Roads were closed and many communities were without power. An avalanche buried 10 hikers in the mountains near Writewood. However, only one girl remained buried until rescued by the national ski patrol and she sustained minor frostbite. Heavy rains caused excessive flow along Ballona Creek near Santa Monica forcing the operator of the Hyperion Sewage Treatment Plant to dump 7.6 million gallons of chlorinated, partly-treated waste water into the Santa Monica Bay forcing the closure of 18 miles of beaches. High winds toppled trees around Lake Hughes, CA, in Los Angeles County.

COLORADO

COZ011
Northeast Foothills

02 0000MST-
1300MST 0 0 0 0 Snow

A narrow band of heavy snow fell during the morning hours in the foothills southwest of Denver. By 1300 MST, new accumulations of up to 6 inches piled up in Waterton Canyon with 5 inches of new powder around the town of Deermond (Jefferson County), both along the South Platte River.

COZ002
Northeast Foothills

03 0000MST-
0800MST 0 0 0 0 Snow

Snow, heavy at times, fell through the night in and around the Steamboat Springs ski resort (Routt County), with 8 inches of campaign powder accumulating by 0800 MST. Lesser amounts fell in the lower elevations of the northwest plateau west and south of the ski area.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

COLORADO

COZ008
Southwest Mountains

19-20 0 0 0 0 Snow

A moist Pacific winter storm that tracked east along the Colorado/New Mexico border dumped heavy snow over the southwest mountains. During the 2-day period as much as 1 to 3 feet of campaign powder fell at many ski areas within the state's southwest mountains, with 24 to 36 inches falling in the vicinity of the Wolf Creek and Red Mountain passes.

Southern half of state

19-20 0 0 0 0 Snow

The Pacific storm that had dumped nearly 3 feet of snow in the southern mountains was also responsible for burying portions of the low elevations from the Four Corners area east across the southeastern plains. Roads were clogged for several hours during the peak of the storm because of numerous vehicle accidents and stalls along Interstate 25 between Trinidad (Las Animas County) and Pueblo (Pueblo County). Snow totals from the storm include the 2- to 7-inch readings in the Four Corners area with 6 inches of new powder falling on Durango. In the southeast, 8- to 15-inch accumulations blanketed the Trinidad area and southeastern foothills, with 3 to 6 inches falling across the southeastern plains. Lesser amounts of a trace to 3 inches were noted across portions of the northeast and central mountains.

CONNECTICUT

CTZ001-002-003-004

15 1600EST-16 1200EST 0 0 5 0 Ice Storm

Rain changed to freezing rain during the late afternoon and evening of the 15th causing a damaging ice storm over the northern third of the state. Glaze accumulated one-half to three-quarters of an inch in much of the region resulting in electric power outages affecting up to 42,000 customers. The greatest damage to power lines occurred in central and western portions of the state. Power was restored to most customers within twenty-four hours. Numerous skidding accidents were reported including a twelve vehicle pile-up at a highway interchange in Waterbury. No serious injuries were reported. Bradley International Airport was closed for a time during the storm. This was the most serious ice storm in the state since 1984.

CTZALL

24 2300EST-25 1200EST 0 0 0 0 Heavy Snow

Heavy snow fell across much of the state as a developing low in the Atlantic south of Long Island moved northeast at the same time that an Arctic airmass arrived. Snowfall amounts ranged from 5 to 7 inches along the coast and up to 11 inches in the northwest hills where New Canaan reported 10.5 inches. Around 7 inches of snow was measured in the Hartford area. This was the first significant snowfall for the state in almost two months. In addition, strong and gusty winds drove wind chill temperatures down to -20°F to -30°F. Mostly minor highway accidents were reported despite very poor road conditions statewide.

DELAWARE

4 SW Milford Farmington

23 2230EST 300 0 1 5 0 Thunderstorm Winds

Winds estimated at 80 mph accompanying heavy rain destroyed 2 mobile homes at Milford and damaged 7 others, following a path estimated to be 300 yards wide. The winds also overturned a propane tank causing a small leak. Several mobile homes were damaged at Farmington. One woman was injured when she was trapped inside a mobile home as it was being picked up and destroyed. Thunderstorms were in the area at the time. Dover AFB reported winds to 35 knots (39 mph) in a thunderstorm.

FLORIDA

Santa Rosa County
Pea Ridge

10 0921EST .2 25 0 0 5 0 Tornado (F1)

Fifty to 60 houses were damaged, 7 suffering major roof damage, and 6 to 12 cars were damaged as a tornado moved through several blocks of a subdivision.

Escambia County
Cantonment

16 1100EST 0 0 0 0 Thunderstorm Wind (G50)

Large tree limbs were blown down.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

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		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

FLORIDA

Santa Rosa County Milton	16	1130EST			0	0	0	0	Thunderstorm Wind (G50) Large tree limbs were blown down.
Okaloosa County Crestview	22	0500EST			0	0	3	0	Thunderstorm Wind (G55) Trees down and outbuildings damaged.
Okaloosa County Fort Walton Beach	22	0530EST			0	0	3	0	Thunderstorm Wind (G55) Utility pole crushed a car.
Walton County Blue Mountain Beach Dune Allen	22	0530EST			0	0	5	0	Thunderstorm Wind (G70) Several homes suffered damages totaling \$150,000 and numerous trees were blown down.
Holmes County Noma	22	0715EST			0	0	0	0	Thunderstorm Wind (G55) Numerous trees were down.
Holmes County Bonifay	22	0730EST			0	0	5	0	Thunderstorm Wind (G90) A barn was destroyed, a house shifted from its foundation and a church roof severely damaged. In the church cemetery, headstones were toppled and moved up to 6 feet.
Jackson County Cottondale	22	0730EST			0	0	3	0	Thunderstorm Wind (G60) Several buildings suffered roof damage and numerous trees were blown down.
Jackson County Cypress	22	0830EST			0	0	3	0	Thunderstorm Wind (G60) A mobile home roof was blown off and trees blown down.
Brevard County Barefoot Bay	22	1330EST			0	0	4	0	Thunderstorm Wind (G55) An apparent downburst from a shower caused \$10,000 damage to carports and awnings at a mobile home park.
Taylor County 5 E Perry	22	1405EST			0	0	3	0	Thunderstorm Wind (G60) Roofs of chicken houses destroyed and other outbuildings were blown over.
Duval County Jacksonville	22	1605EST							Funnel Cloud Pilot reported two funnel clouds.
Charlotte County Punta Gorda	23	0930EST	short		0	0	4	0	Tornado (F0) A brief tornado damaged 7 mobile homes doing a total of \$25,000 damage.
Carroll County Villa Rica	04 04	0130EST 0145EST			0 0	0 0	? ?	? ?	Thunderstorm Wind Thunderstorm Wind Several trees were downed and vehicles were damaged as strong winds crossed the county. Several homes had roof damages.
Webster County 2 E Richland	09	0600EST			0	0	?	?	Thunderstorm Wind
Stewart County Richland	09	0600EST			0	0	?	?	Thunderstorm Wind Scattered trees were blown down onto power lines, resulting in outages.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

GEORGIA

Fulton County Countywide	09	1800EST			0	0	?	0	Flash Flood
De Kalb County Countywide	09	1830EST			0	0	?	?	Flash Flood
Avondale Estates	09	1830EST			0	0	?	?	Thunderstorm Wind
Lithonia	09	1900EST			0	0	?	?	Flash Flood
Rockdale County Milstead	09	1915EST			0	0	?	?	Flash Flood
Gwinnett County 5 S Snellville	09	1915EST			0	0	?	?	Flash Flood

Several sections of the Atlanta area received over an inch of rainfall in a very short period of time. Many streets were flooded in Atlanta. However, the flash flooding persisted longer east of Atlanta and Fulton County, where flooding continued in a few areas until about 2100 EST.

At Avondale Estates, winds caused scattered power outages.

Fulton County Atlanta	09	2020EST			0	0	?	0	Flash Flood
De Kalb County North Atlanta Decatur	09	2020EST			0	0	?	0	Flash Flood

Several residential areas of Atlanta and Decatur were flooded as rain persisted over the metropolitan area. With over 2 inches of rainfall within two hours and already saturated soils, area creeks and streams experienced rapid rises.

Dooly County Byromville	10	0200EST			0	0	?	?	Thunderstorm Wind
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Thunderstorm winds tore tree limbs, flipped one trailer, and shifted another trailer off its foundation. A few shingles were lifted from the roof of a home.

Gilmer County Countywide	10	0422EST			0	0	?	?	Thunderstorm Wind Small Hail
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Scattered trees were blown down along Georgia Highway 52 and other county roads.

Upson County Western Upson County Thomaston	10	0430EST			0	0	?	?	Thunderstorm Wind
	10	0500EST			0	0	?	?	Thunderstorm Wind

Thunderstorm winds caused damage over western Upson County as storms moved across the area. Power outages developed around 0430 EST. Scattered trees were downed.

Haralson County Tallapoosa	10	0502EST			0	0	?	?	Thunderstorm Wind (G52)
Countywide	10	0505EST			0	0	?	?	Thunderstorm Wind
Carroll County Countywide	10	0505EST			0	0	?	?	Thunderstorm Wind
	10	0505EST			0	0	5	?	Flash Floods

Flash flooding washed away or damaged a half-dozen bridges in Carroll County. One bridge on Georgia Highway 5, cost \$30,000 to repair. Many buildings and vehicles were damaged by winds, wind blown debris, and fallen trees in Haralson and Carroll Counties. In Carroll County, homes under construction at several locations and other structures suffered considerable damage.

Carroll County 2 SSM Mt. Zion	10	0515EST	1.5	100	0	0	5	?	Tornado (F1)
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A small tornado touched down about 2 miles south-southwest of Mt. Zion. The tornado destroyed a cement block building. As it continued south to east, it damaged the roofs of several homes along its path. Most of the damage occurred over a wooded area. At the end of the damage path, two large chicken houses, located east of Georgia Highway 16, were destroyed.

Lowell	10	0515EST			0	2	?	?	Thunderstorm Wind
Roopville	10	0515EST			0	0	?	?	Thunderstorm Wind
Bowdon	10	0515EST			0	0	4	?	Thunderstorm Wind
Carrollton	10	0515EST			0	1	5	?	Thunderstorm Wind
	10	0515EST			0	0	4	0	Lightning

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

GEORGIA

Mt. Zion 10 0525EST 0 0 ? ? Thunderstorm Wind

Over urban and rural areas, numerous trees were uprooted or broken. At Lowell, two people were injured when a mobile home was overturned by winds. Across southern Carroll County, many homes and vehicles were damaged by falling trees; other roofs were damaged by winds. In downtown Bowdon, a store lost a front window and awnings during the storm. A new senior citizen's building was demolished by winds near 80 mph; several smaller buildings also were destroyed by winds. At West Georgia College in Carrollton, destruction to buildings, roofs, and fences cost about \$250,000. Between 300 to 600 trees were lost around the campus. Lightning damage at the college cost around \$40,000. Although several persons sustained minor injuries during the storm, only one man was admitted to a hospital. Around Mt. Zion, wind damage was spread over nearly 5 miles.

Heard County
2 S Centralhatchee 10 0515EST 0 0 ? ? Thunderstorm Wind
Corinth 10 0520EST 0 0 ? ? Thunderstorm Wind
 10 0520EST 0 0 ? 0 Lightning

Numerous trees were uprooted or broken on both sides of U.S. Highway 1. Across the county, several homes were damaged by falling trees. At Centralhatchee, a barn and several smaller structures were destroyed. Near Corinth, a large oak fell onto power lines and a propane tank. Sparks from the lines ignited a raging gas fire that destroyed the home.

Coweta County
Sargent 10 0520EST 0 0 ? ? Thunderstorm Wind
Arnco Mills 10 0520EST 0 0 ? ? Thunderstorm Wind

Considerable tree damage resulted from thunderstorm winds around Sargent, along with the remainder of Coweta County. One older home was blown off its foundation. Two schools had damage and several barns were destroyed. Considerable damage resulted from fallen trees, including a church at Arnco Mills that had extensive roof damage.

Troup County
Hogansville 10 0520EST 0 0 ? ? Thunderstorm Wind
3 S Hogansville 10 0525EST 0 0 4 ? Thunderstorm Wind
LaGrange 10 0530EST 0 0 5 0 Thunderstorm Wind
West Point 10 0545EST 0 0 ? ? Thunderstorm Wind
Greenville
West Point Lake

Strong thunderstorm winds caused scattered damage to trees and power lines, resulting in brief, local outages over the county, including LaGrange and Hogansville. South of Hogansville, a viewing shelter at a horse farm was damaged. Repair costs were estimated at about \$10,000. At LaGrange, scattered power poles and lines were downed. Businesses, homes, and other structures sustained damage. Three-fourths of LaGrange had power outages. At West Point, a roof was taken off a hotel. The damages to the hotel were estimated to cost about \$125,000. Several businesses in West Point suffered minor roof damage, while a local bottling plant lost a wall.

Douglas County
Lithia Springs 10 0545EST 0.5 200 0 0 6 ? Tornado (F1)

A small tornado developed at Lithia Springs and set down over a wooded area. The tornado then moved to an adjacent mobile home park, where the majority of the damage occurred. In the Springtime Trailer Park and along the tornado's path, eighty-three homes were damaged; thirty-six were demolished or had severe damage. Several vehicles were ruined by fallen trees. The tornado dissipated quickly. Three mobile homes burned when a gas line was ignited. No residents were treated at a hospital. Damage costs were estimated to be over \$650,000.

Muscogee County
Columbus 10 0548EST 0 0 ? 0 Thunderstorm Wind (G53)
 10 0555EST 0 2 ? 0 Thunderstorm Wind

Strong winds caused considerable damage in the Bi-City area of Phenix City, Alabama and Columbus. In Columbus, several mobile homes, vehicles, and roofs were damaged. Countless trees, power poles and lines were downed. Considerable damage occurred around the Weracoba Park area. Approximately fifty homes and a hundred businesses sustained damage, including four downtown churches that suffered roof and steeple damage. Damaged stores lost some merchandise due to exposure to the elements. Damage costs were estimated to be near \$10,000,000.

Harris County
Countywide 10 0548EST 0 0 ? ? Thunderstorm Wind
Lake Harding 10 0550EST 0 0 ? ? Thunderstorm Wind
1 S Waverly Hall
Pine Mountain

Scattered trees and power lines were downed by winds. Several homes and vehicles were damaged over the county. Considerable damage occurred at Lake Harding to homes, cars, docks,

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

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		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

GEORGIA

and the seawalls. About sixty homes around the lake sustained damage. South of Waverly Hall, at least three barns were destroyed by winds and power lines were torn down, leaving approximately three hundred residents without power.

3 W Cataula 10 0550EST 0 0 ? ? Thunderstorm Wind

Along Highway 315, west of Cataula, thunderstorm winds caused considerable damage. A double-wide trailer was moved off its foundation, after losing part of its roof. Numerous trees were uprooted or broken, along with a utility pole. At another home the roof was blown off, a barn was severely damaged, and outdoor furniture was carried airborne over a hill. Damages were spread over nearly a 4-mile area.

Fulton County
Atlanta
Hapeville 10 0552EST 0 0 ? 0 Thunderstorm Wind (G59)

Scattered power outages occurred around the city as trees and power lines were blown down.

Upson County
5 W Thomaston 10 0555EST 3.0 75 0 2 5 ? Tornado (F1)

A small tornado developed and moved almost due east over a rural area. Two mobile homes were destroyed along the path. A mother and child, trapped inside one of the mobile homes, suffered minor injuries. Trees, power lines, and roof damage also occurred along the path. Peak winds were estimated at near 90 mph.

Cobb County
4 NNE Austell 10 0555EST 1.3 200 0 2 6 0 Tornado (F2)

A tornado developed in south Cobb County in a residential area. About fifty homes were damaged; about fourteen were demolished or condemned. Numerous large trees were twisted off or uprooted. Approximately 145 homes suffered some damage from the tornado. Vehicles, signs, and utility lines were damaged by falling trees and winds. Damage costs were estimated to be near \$2 million.

Gwinnett County
Duluth
Lilburn 10 0555EST 0 0 ? 0 Thunderstorm Wind (G65)
10 0555EST 0 0 ? 0 Thunderstorm Wind

At Lilburn and Duluth, numerous trees were toppled, resulting in considerable structural damage to homes and other buildings. Several vehicles were totaled when trees crushed them. Power lines were torn down by fallen trees and the winds. At Lilburn, a mobile home, boat, and two cars were damaged when a large tree fell upon them. Near Duluth around Lake Norman, winds were measured at 65 miles an hour.

Cobb County
Countywide 10 0555EST 0 0 6 0 Thunderstorm Wind
Powder Springs 10 0557EST 0 0 4 ? Thunderstorm Wind
3 NE Marietta 10 0559EST 0 0 ? 0 Thunderstorm Wind

De Kalb County
Countywide 10 0555EST 0 0 ? 0 Thunderstorm Wind (G70)
Decatur 10 0600EST Short 0 0 ? 0 Thunderstorm Wind
North Atlanta 10 0600EST Short 300 0 0 4 0 Thunderstorm Wind
Lightning

Fayette County
Peachtree City
Countywide 10 0555EST 0 0 ? 0 Thunderstorm Wind

Henry County
Countywide 10 0600EST 0 0 ? ? Thunderstorm Wind

Clayton County
Countywide 10 0600EST 0 0 ? 0 Thunderstorm Wind
Jonesboro 10 0600EST Short 100 0 0 3 0 Thunderstorm Wind

Fulton County
Atlanta 10 0600EST 0 0 ? 0 Thunderstorm Wind
College Park 10 0600EST 0 0 ? 0 Thunderstorm Wind

Thunderstorms ripped across the metropolitan Atlanta area and caused considerable damage. Countless incidents of wind damage occurred and many areas were impassable as numerous trees fell under the force of the winds. A local television station's doppler radar indicated that the winds in the storms averaged near 72 mph over metropolitan Atlanta, with some winds over 80 mph. Trees fell onto countless homes and businesses over the area, causing roof and structural damage, along with damage to many vehicles and signs. Extensive power outages occurred as the winds and falling trees tore down utility lines and snapped poles.

In Fayette County, several fires, ignited by live power lines torn down by the winds and falling trees, occurred in Peachtree City. Restoration costs for the utilities were estimated to be near \$400,000. Although damage occurred over all of Clayton County, the

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

GEORGIA

southwestern portion of the county was hardest hit. Around Jonesboro, the straight-line winds caused damage, about 100 feet wide, over a wooded area. The costs were estimated to be less than \$5,000. Every community in Henry County had damages from the thunderstorms.

In north Atlanta, located in De Kalb County, extensive damage occurred in one subdivision when downburst winds ripped through the area. Numerous trees were downed onto homes and vehicles over a short, narrow path. The damage was several hundred yards wide. Several trees were also struck by lightning. Damage costs were estimated to be near \$20,000. In north Decatur, two similar, but smaller downbursts occurred. Some power lines were downed and one store window was blown in.

Over Cobb County, approximately 113 homes suffered wind damage, mainly over northeast Cobb County. At Powder Springs, damages were estimated to be near \$15,000. At Austell, the parks alone had \$14,925 in damage costs. Over Cobb County, damage costs amounted to over \$1,625,000 including flooding and wind damages, particularly over the northeastern portion of the county. Damage estimates did not include spoiled foods, downed trees, damages to yards and landscaping, and any damages to utility poles and lines.

Upson County
Crest
12 E Thomaston
Countywide

10	0600EST				0	0	?	?	Thunderstorm Wind
10	0605EST				0	0	?	0	Thunderstorm Wind

Numerous trees were downed over the county, with resulting damage to homes, businesses, and vehicles. In the Yatesville community, about 12 miles east of Thomaston, considerable tree damage occurred. One mobile home was severely damaged by a fallen tree. Power lines were torn down over the county by winds and trees, resulting in widespread power outages.

Douglas County
Countywide
Sweetwater State
Park

10	0600EST				0	0	5	?	Thunderstorm Wind
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Scattered damage from thunderstorm winds occurred over Douglas County. Countless trees, power poles and lines were downed by the winds. Many homes and buildings had roof damage that ranged from \$500 to \$50,000. The western portion of the county was hardest hit. Damage costs over the county, excluding the tornado area, were estimated at near \$250,000.

Gwinnett County
Norcross
Lawrenceville
4 NNW Grayson

10	0600EST				0	0	?	0	Thunderstorm Wind
10	0600EST				0	0	?	0	Thunderstorm Wind
10	0600EST				0	0	?	?	Thunderstorm Wind

Numerous trees were downed over Gwinnett County. Scattered damage occurred across Norcross, including windows blown out by winds at several businesses. At Lawrenceville and northwest of Grayson, power lines and trees were downed. Vehicles and homes suffered damage caused by falling trees and windblown debris.

3 ESE Norcross

10	0600EST	1.0	75	0	0	6	0	Tornado (F1)
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A small tornado developed over an industrial section near Norcross. The tornado damaged the roofs of several businesses as it skipped along its path. A patio furniture store suffered considerable structural damage as the tornado tore a portion of the roof off and damaged two stone walls. The tornado twisted a few signs and trees as it moved across Interstate 85. It struck again at a furniture warehouse on the other side of the highway and did extensive damage to that one building, although it was co-located with a large flea market complex. The tornado took a large portion of the roof off, along with the entire front of the warehouse.

Norcross

10	0600EST	1.0	50	1	0	?	0	Thunderstorm Wind
10	0600EST	.25	50	0	0	?	0	Thunderstorm Wind

Two downburst events developed over southern Gwinnett County west of the tornado's path. The two events were basically parallel to each other and tracked from the southwest to the northeast. The damage path of the shorted downburst was over a private golf course. The longer track pushed across the golf course into a neighborhood. Numerous trees were pushed down by both wind events. In one neighborhood, a tree fell across the bedroom of an elderly woman's house and killed her. Considerable structural damage occurred to several homes, along with damage to vehicles, power lines, and other properties around the area. F72P

De Kalb County
Countywide

10	0604EST				0	0	?	0	Thunderstorm Wind Small Hail
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Coweta County
Countywide
5 NW Newnan
Yates
Newnan

10	0604EST				0	10	6	0	Thunderstorm Wind
10	0605EST				0	0	?	0	Thunderstorm Wind
10	0610EST				0	3	6	?	Thunderstorm Wind

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

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GEORGIA

Sharpsburg 10 0625EST 0 0 ? ? Thunderstorm Wind

Thunderstorm winds caused extensive damage over Coweta County. Numerous trees were snapped or uprooted over the area. At Sharpsburg and at Newnan, numerous homes were damaged by fallen trees. Patrons of a restaurant, located on U.S. Highway 29 near Newnan, were showered with glass as a window pane was shattered by the winds. Three were treated for injuries. The framing for a hotel, destroyed by a March 1989 tornado, was demolished at Newnan. The winds severely damaged several airplanes at the Newnan Airport. About 5 miles northwest of Newnan, a frame home was blown off its foundation. At least five mobile homes were overturned at various locations in the county. Extensive power outages resulted when utility lines were damaged by the wind and trees. Another 10 persons were treated for injuries in Coweta County. Emergency utility costs were estimated to be between \$350,000 to \$400,000 in materials and overtime pay.

Coweta County
Northwestern
Coweta County
Carroll County
Whitesburg

10 0600EST-
11 0700EST 0 0 ? ? Flood
10 0600EST-
11 0700EST 0 0 ? ? Flood

The Chattahoochee River flooded at Whitesburg and along the river in northwest Coweta County after steady, heavy rainfall during the morning. The river crested early Saturday at 17.2 feet; the flood stage is 15 feet. Riverside agricultural land roads, and recreational areas were damaged by the flooding.

Green County
Penfield

10 0600EST-
13 1300EST 0 0 ? ? Flood

The Oconee River flooded at Penfield after steady, heavy rainfall over northeast Georgia. Riverside residences were flooded, along with agricultural lands along the river.

Toombs County
Southern Toombs
County
Appling County
Northern Appling
County

10 0600EST-
11 0700EST 0 0 0 ? Flood
10 0600EST-
11 0700EST 0 0 0 ? Flood

The Altamaha River flooded at Plant Hatch north of Baxley. Considerable flooding occurred over agricultural lands along the river.

Cobb County
Austell

10 0605EST 0 0 5 0 Thunderstorm Wind

Thunderstorm winds ripped through an industrial section around Interstate 20 near Austell. Numerous trees were blown down by the winds and one business was destroyed. The parent thunderstorm continued almost due east along the highway and produced a tornado over the West End section of Atlanta.

Gwinnett County
Dacula

10 0608EST 0 0 ? ? Thunderstorm Wind
10 0608EST 0 0 ? 0 Hail (1.50)

Numerous trees were uprooted or snapped by straight-line winds east of Dacula near the county line. Several mobile homes were damaged by fallen trees. Hailstones broke the windows of vehicles in the area.

Lamar County
Countywide
Johnstonville
Spalding County
Countywide
Griffin
Butts County
Countywide
Jackson

10 0610EST 0 0 ? ? Thunderstorm Wind
10 0610EST 0 0 ? ? Thunderstorm Wind
10 0610EST 0 0 ? ? Thunderstorm Wind
10 0620EST 0 0 ? ? Thunderstorm Wind

Numerous trees were blown down across Lamar, Butts, and Spalding Counties. Numerous power outages resulted from utility lines being torn down by fallen trees and the winds. In Lamar County, considerable damage occurred around Johnstonville. One farmer lost 50,000 chickens when two chicken houses were destroyed by the winds. In addition, the winds damaged several storage bins on the same farm. In a mobile home park, four homes were destroyed by winds and another fourteen were damaged. The eastern portion of Spalding County had extensive damage. At Griffin, several homes had damage from fallen trees and limbs, along with roof damage from the winds. In Jackson, several homes and other structures suffered damage due to falling trees.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

GEORGIA

Stewart County
Countywide
Lumpkin,
Omaha

10	0615EST			0	0	?	?	Thunderstorm Wind
10	0615EST			0	0	?	?	Thunderstorm Wind

Scattered large trees were uprooted or broken as thunderstorms moved across the county. Power lines were torn down by the winds and falling trees around Lumpkin and Omaha.

Talbot County
Woodland

10	0620EST			0	0	?	?	Thunderstorm Wind
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A few trees and power lines were downed by thunderstorm winds along Highway 41 near Woodland and along Highway 36.

Hall County
Gainesville
Habersham County
Cornelia

10	0630EST			0	0	?	?	Thunderstorm Wind
10	0630EST			0	0	?	?	Thunderstorm Wind

Scattered trees were downed over the western portion of the county and around Gainesville. In Cornelia, a water tower was damaged by winds. A few power outages developed due to fallen tree limbs.

Gwinnett County
Morcross
Countywide
Rockdale County
Countywide

10	0630EST			0	0	?	0	Thunderstorm Wind
10	0630EST			0	0	?	0	Thunderstorm Wind
10	0630EST			0	0	?	?	Thunderstorm Wind

Numerous trees were uprooted or snapped by thunderstorm winds, resulting in extensive power outages over both Rockdale and Gwinnett Counties. At one farm in Rockdale County, more than three hundred trees were downed, damaging two automobiles and a home. Other structures across both counties were damaged by fallen trees.

De Kalb County
Decatur,
Stone Mountain
Countywide
3 SW Lithonia

10	0630EST			0	0	?	0	Thunderstorm Wind
10	0630EST			0	0	?	0	Thunderstorm Wind
10	0630EST			0	0	?	0	Thunderstorm Wind

Numerous trees were snapped or uprooted by downburst winds in the northern portion of Decatur. Businesses and homes suffered damage from winds and falling trees. Over the county, power lines were torn down by the winds and fallen trees, resulting in extensive power outages.

Bibb County
Macon
Countywide

10	0630EST			0	0	?	0	Thunderstorm Wind
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Scattered trees and power lines were blown down over Macon and Bibb County.

Walton County
Countywide

10	0633EST			0	0	?	?	Thunderstorm Wind
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Scattered trees and power lines were blown down over the county.

Newton County
Covington

10	0633EST			0	0	6	?	Thunderstorm Wind (G52)
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Electrical and telephone services were out over Covington after winds and falling trees tore down utility lines. At a shopping plaza, several businesses suffered considerable wind damage and merchandise losses. A carwash was totally destroyed by winds. A trailer was overturned off U.S. Highway 278, near the hard-hit area around the intersection of U.S. 278 and Georgia Highway 81.

Barrow County
Bethlehem
3.5 W Winder
6.5 N Winder

10	0633EST			0	0	?	?	Thunderstorm Wind (G52)
10	0635EST			0	0	?	?	Flash Flood
10	0650EST			0	0	?	?	Thunderstorm Wind

Numerous trees and power lines were blown down across Barrow County. Considerable damage occurred at Bethlehem, where many trees were uprooted toward the northeast as the parent storm that spawned a tornado at Bold Springs in Walton County moved across the area. Damage occurred to several homes and buildings at Georgia Highways 81, 324, and 11. Near Bethlehem, along Highway 11, two empty chicken houses were destroyed. Several residents were trapped inside homes when trees fell upon them.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

GEORGIA

Wilkinson County
Countywide

10 0700EST 0 0 ? ? Thunderstorm Wind

Although power lines were damaged by the thunderstorm winds that raged across the entire county, no major outages occurred. Numerous trees were blown down by the winds. One rural residence sustained damage when a tree fell upon it.

Clarke County
Athens

10 0700EST 0 0 ? ? Thunderstorm Wind

Scattered trees were blown down across Athens, with the majority of the damage in the southwestern section of the city near Georgia Highway 441.

Madison County
8 S Ila
Sanford
Buckhead
Commerce
Countywide

10 0700EST 0 0 ? ? Thunderstorm Wind
10 0700EST 0 0 4 4 Thunderstorm Wind
10 0700EST 0 0 5 ? Thunderstorm Wind
10 0700EST 0 0 ? ? Flash Floods

The majority of the damage across Madison County occurred in rural areas. Trees were blown down over the county, including at Georgia Highway 106 near Ila. Winds caused scattered structural damages to homes, trailers, and farm buildings. At Commerce, scattered power outages developed when the winds tore down power lines. Several businesses in a shopping area were severely damaged, including a gas station and a supermarket. Damages in Commerce were estimated to be near \$150,000. At Sanford, falling trees damaged homes. Across the county, trees and limbs blocked roadways. At Buckhead, two chicken houses were flattened on two farms. Over 12,000 birds were killed in one house, with damages estimated at over \$70,000. Flash floods developed at several locations, causing minor soil damage.

Taylor County
Countywide
Butler
Countywide

10 0700EST 0 0 ? ? Thunderstorm Wind
10 0700EST 0 0 ? ? Flash Flood

Scattered trees and power lines were downed by thunderstorm winds across Taylor County and in Butler. Heavy rainfall over the entire county produced flash flooding. As a result, one county road was washed out.

Marion County
Buena Vista

10 0700EST 0 0 ? ? Thunderstorm Wind

A few large trees were uprooted around Buena Vista along Highway 137 and to the south of Buena Vista along Highway 41.

Muscogee County
Columbus

10 0702EST 0 0 ? ? Thunderstorm Wind

Scattered damages occurred over Columbus from winds and falling trees.

Dooly County
Countywide
Unadilla

10 0705EST 0 0 ? ? Thunderstorm Wind
10 0705EST 0 3 ? ? Thunderstorm Wind

Thunderstorm winds destroyed a mobile home at Unadilla. The winds lifted the mobile home and moved the structure 6 feet across the yard. A barn was also destroyed on the property. A family of three was inside the home and suffered injuries. Widespread damage occurred to trees across the county. Many power outages occurred.

Baldwin County
Milledgeville
Southern Baldwin
County

10 0710EST 0 0 6 ? Thunderstorm Wind
10 0710EST 0 0 ? ? Thunderstorm Wind

Thunderstorm winds lifted the roofs of two homes and shattered a store's front windows on the south side of Milledgeville. Two other homes were severely damaged by falling trees. Several businesses suffered minor damage to roofs and signs. Numerous trees were uprooted and power lines were torn down across the county, particularly from near Hardwick to Coopers and in Milledgeville. Winds were estimated at near 87 mph.

Banks County
10 NNW Homer
6 E Homer

10 0710EST 0 0 ? ? Thunderstorm Wind

Along Interstate 85 through Banks County, thunderstorm winds caused extensive damage. Scattered trees were uprooted and broken. A building suffered considerable damage from the winds and falling trees, along with several automobiles. In the Rock Springs community, 10

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

GEORGIA

miles north-northwest of Homer, strong winds destroyed a mobile home and two chicken houses. East of Homer, another trailer was destroyed by winds. Scattered power outages occurred across the county.

Worth County
Countywide
Sylvester

10	0710EST	0	0	?	?	Thunderstorm Wind
10	0710EST	0	0	?	?	Thunderstorm Wind

Scattered trees were downed in Sylvester and across Worth County. Downed power lines resulted in scattered outages over the area.

Bleckley County
Cochran

10	0715EST	0	0	?	?	Thunderstorm Wind
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Scattered trees and power lines were blown down around Cochran. The porch was blown off one home.

Houston County
Perry
Warner Robins
Countywide

10	0715EST	0	0	?	?	Thunderstorm Wind
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10	0725EST	0	0	?	?	Thunderstorm Wind
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Across Houston County, several homes had roof damage from the numerous falling trees. A home near Warner Robins had its roof ripped off by the winds. Numerous power lines were blown down or torn down by trees. In southern Houston County, one farmer lost approximately 500 quail when their buildings blew away. At Perry, several residences were damaged by falling trees.

Oglethorpe County
3 E Winterville
3 W Lexington
3 SE Arnoldsville

10	0715EST	0	0	?	?	Thunderstorm Wind (G52)
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10	0725EST	0	0	?	?	Thunderstorm Wind
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Thunderstorm winds caused scattered damage over the entire county. At 0715 EST, a storage shed was totally ruined by winds greater than 60 mph. By 0725 EST, numerous trees were uprooted or broken, causing scattered power outages and damaging several homes.

Stephens County
Avalon
Countywide

10	0715EST	0	0	?	0	Thunderstorm Wind
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10	0730EST	0	0	?	?	Thunderstorm Wind
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Scattered trees were uprooted and broken over the county. At Avalon, winds damaged a 200-foot long wall and a portion of the roof of an industrial building. About fifty trees near the building were downed.

Pulaski County
Hawkinsville
Countywide

10	0720EST	0	0	?	?	Thunderstorm Wind
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10	0725EST	0	0	?	?	Thunderstorm Wind
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Numerous trees were blown down across the county. Several vehicles in Hawkinsville were damaged when trees fell upon them. A trailer home was destroyed by winds near Hawkinsville.

Greene County
Countywide

10	0725EST	0	0	?	?	Thunderstorm Wind
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Scattered trees and power lines were blown down by winds over the entire county.

Franklin County
Hartwell Lake

10	0730EST	0	0	?	?	Thunderstorm Wind
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Several marinas were damaged by the winds. Scattered trees were uprooted or broken along the western side of Lake Hartwell.

Hart County
Hartwell
Wilkes County
Tyrone
Danburg
Washington
Rayle

10	0730EST	0	0	?	?	Thunderstorm Wind
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10	0730EST	0	0	?	?	Thunderstorm Wind
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Scattered trees were uprooted or broken across the county, resulting in damage to a few properties.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

GEORGIA

**Wheeler County
Countywide**

10	0817EST				0	0	?	?	Thunderstorm Wind
10	0830EST				0	0	?	?	Thunderstorm Wind

Scattered trees were blown down or broken by thunderstorm winds as the storms moved across Wheeler County. Over the western portion of the county, a barn's roof was blown off and power lines were torn down as the storms moved through.

**Columbia County
Grovetown**

10	0820EST				0	0	?	?	Thunderstorm Wind
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Over southern Columbia County, winds were estimated to be between 55 and 60 mph. At Grovetown, shingles were blown off the roofs of several homes. Power outages resulted when scattered trees were broken or uprooted.

**Richmond County
Augusta
3 ESE Augusta
Countywide**

10	0822EST				0	0	?	?	Thunderstorm Wind
10	0823EST				0	0	?	?	Thunderstorm Wind
10	0825EST				0	0	?	?	Thunderstorm Wind

High winds, estimated at 50 to 60 mph, occurred around Augusta. Gusts in excess of 70 mph were observed southeast of Augusta. Scattered trees were downed over Richmond County. Power outages resulted when utility lines were torn down by falling trees and winds. Although no injuries occurred during the storm, a man was injured at 0925 EST while clearing debris at Augusta. Several homes sustained roof damage due to the fallen trees.

**Berrien County
Nashville
Countywide**

10	0825EST				0	0	?	?	Thunderstorm Wind
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Scattered trees were uprooted at Nashville and over the remainder of the county. A few buildings had roof damage. Telephone and electrical lines were torn down by falling trees.

**Candler County
2 S Metter**

10	0830EST				0	0	?	?	Thunderstorm Wind
10	0845EST				0	0	?	?	Thunderstorm Wind

Power outages occurred when electric lines were blown down by thunderstorm winds around Metter.

**Bulloch County
Countywide**

10	0930EST				0	0	?	?	Thunderstorm Wind
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Scattered trees were blown down, mainly over the southern portion of the county.

**Effingham County
Clyo**

12	0600EST-				0	0	0	?	Flood
28	2400EST								

The Savannah River rose over 5 feet above the 11-foot flood stage at Clyo. By the end of the month, considerable damage had occurred to agricultural lands along the river.

**Dade County
Countywide**

15	2120EST-				0	0	?	?	Flash Flood
16	0015EST								

**Floyd County
Countywide**

15	2120EST-				0	0	?	?	Flash Flood
16	0015EST								

**Chattooga County
Countywide**

15	2126EST-				0	0	?	?	Flash Flood
16	0015EST								

**Haralson County
Bremen
Countywide**

15	2150EST				0	0	?	?	Flash Flood
15	2150EST-								
16	0015EST								Flash Flood

**Polk County
Countywide**

15	2230EST-				0	0	?	?	Flash Flood
16	0015EST								

Moderate to occasionally heavy rainfall spread into Georgia during the afternoon and early evening as a cold front moved toward the state. With the winds aloft almost parallel to the front itself, the system moved very slowly. Thereby, showers and thunderstorms developed a train-echo effect over Georgia's northwestern counties. Rainfall amounts by 2230 EST were already over 2 inches at many locations. As the rainfall continued, devastating flooding developed after midnight.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

GEORGIA

Dade County Countywide	16	0016EST- 0630EST			0	0	?	?	Flash Flood
Floyd County Rome	16	0016EST- 0630EST			0	0	?	?	Flash Flood
Countywide	16	0016EST- 0630EST			0	0	?	?	Flash Flood
Chattooga County Trion	16	0016EST- 0630EST			0	0	6	?	Flash Flood Lightning
Countywide	16	0016EST- 0630EST			0	0	7	?	Flash Flood

Shortly after midnight, flooding worsened quickly over northwest Georgia, particularly over Floyd and Chattooga Counties. After 4 inches of rain had fallen, many roads were closed, and water was entering homes located in low-lying areas. Lightning shattered a transformer at Trion, causing a power outage. Later power outages were caused by flood waters.

By 0210 EST, major flooding had developed. Homes were evacuated at Trion as flood waters rose. Extensive damages occurred to homes, roads, and bridges over all of northwest Georgia. Evacuations were necessary in every town of Dade County. Many bridges were completely washed out or heavily damaged. By 0310 EST, serious flooding had developed at Summerville and at Rome. The Oostanaula and Etowah Rivers flooded. Tributaries also rose out of their banks and complicated the situation. By 0520 EST, the Chattooga River overflowed and pushed over a dam.

Additional evacuations occurred in over four communities of Chattooga County. People were evacuated from a flooded apartment building in Rome and a subdivision. By the end of the rain event, 5 to 9 inches of rainfall were measured over a large area. The worst flooding in the state developed in this area between Rome and Chattanooga, Tennessee. The rainfall slowly tapered off by 1350 EST, although flooding persisted through Saturday. At Trion, a thousand persons were estimated to have been forced from their homes. The Chattooga River set a new record when it reached 22.6 feet south of Summerville. Dozens of homes remained partially submerged or surrounded by water into the next week.

Whitfield County Dalton	16	0115EST- 0630EST			0	0	?	?	Flash Flood
Waring Tilton	16	0200EST- 0630EST			0	0	?	?	Flash Flood
Walker County Countywide	16	0140EST			0	0	?	?	Flash Floods
Dade County Trenton	16	0200EST- 0630EST			0	0	?	?	Flash Flood
Catoosa County Ringgold	16	0200EST- 0630EST			0	0	?	?	Flash Flood
Murray County Eton	16	0215EST- 0630EST			0	0	6	?	Flash Flood
Chatsworth Fort Mountain	16	0215EST- 0630EST			0	0	5	?	Flash Flood
Countywide	16	0230EST- 0630EST			0	0	6	?	Flash Flood

Heavy rainfall over Tennessee, Alabama, and Georgia occurred throughout the night. Over extreme northwest Georgia, rainfall amounts totaled near 10 inches in a few areas. Flash floods continued to make several areas inaccessible as water pooled up. In the Waring community, evacuations occurred after water entered homes and reached the hoods of vehicles. Additional roads were damaged.

At Chatsworth more than 7 inches of rain fell. A mudslide, with local damage, occurred in the flash floods at Fort Mountain. A few smaller mudslides developed in other rural areas. Over northwest Georgia, many gas lines, utility cables, culverts, bridges, railroad tracks, and other properties were washed away or heavily damaged.

Major flooding developed over Murray County with extensive damages. At Eton, flooding worsened after 6.50 inches fell by 0330 EST. Damages to two city blocks were estimated to cost near \$500,000. About \$1 million worth of damage was done to county roads and bridges.

Fannin County McCaysville	16	0400EST			0	0	?	?	Flash Flood
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Heavy rainfall caused a mudslide near Georgia Highway 5.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

GEORGIA

Floyd County Rome	16 25	0500EST- 0700EST			0	0	6	?	Flood
Gordon County Resaca, Calhoun Countywide	16 23 16	0500EST- 0700EST 0500EST			0	0	?	?	Flood Flash Flood
Dade County Trenton Countywide	16	0500EST			0	0	?	?	Flash Flood
Whitfield County Dalton Countywide Tilton	16 15 21	0505EST 0500EST- 0700EST			0	0	?	?	Flash Flood Flood
Bartow County Adairsville Countywide Walker County LaFayette Countywide	16 16	0510EST 0520EST			0	0	?	?	Flash Flood Flash Flood
Catoosa County Ringold Countywide Gilmer County Ellijay Countywide	16 16	0513EST 0525EST			0	0	?	?	Flash Flood Flash Flood

Heavy rainfall persisted over northwest Georgia into the morning hours. In all eight counties, additional roads were closed as the waters deepened. During the flash flood event, only three homes were evacuated in Adairsville. By 0520 EST, twenty-five roads were closed in Catoosa County. Several vehicles were damaged in LaFayette. In Gilmer County, bridges were washed out by the flood waters. In addition, mudslides and rockslides occurred in the mountains.

In Floyd and Gordon Counties, the Oostanula River overflowed. By Sunday, the river had reached 31.7 feet in Gordon County. At Rome, where the flood stage is 25 feet, the river reached 32.6 feet. The most extensive flooding developed over southern Whitfield County, along the Conasauga River near Tilton, and over all of Walker County. Walker County was one of the hardest-hit areas in the state.

Residents were evacuated from several flooded homes in Gordon County after about 5 inches of rain. In Gilmer County, vacation homes were flooded. Flooding persisted over northwest Georgia into the afternoon. Hundreds of homes, roads, culverts, and bridges were damaged.

Fannin County Countywide McCaysville 5.5 E McCaysville	16 16 16	0515EST 0530EST 0620EST			0 0 0	0 0 1	6 6 ?	? ? ?	Flash Flood Flood Flood
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The local creeks and the Toccoa River washed over their banks and forced around 500 people from their homes. Property damage was extensive as floods reached to the rooftops of many homes. At least two-thirds of the businesses in McCaysville suffered serious damage. Fannin County was one of the hardest-hit areas in the state. Monumental damage occurred to the county's roads and bridges. Damage estimates for the city and county totaled near \$1.6 million. About 5.5 miles east of McCaysville, a man suffered a broken neck and shoulder-bone, along with other injuries when his truck was swept away by floods.

Bartow County Countywide Allatoona Lake	16 16 17	0530EST 0530EST- 1000EST			0 0	0 0	?	?	Flash Flood Flood
Cherokee County Canton Countywide Allatoona Lake	16 16 17	0530EST 0530EST- 1000EST			0 0	0 0	?	?	Flash Floods Flood

Heavy rainfall during the morning forced the Etowah River over its banks and caused backwater flooding around Allatoona Lake in Cherokee and Bartow Counties. Recreational facilities around the lake were damaged, along with residences. Flash flooding developed around Canton and over both counties.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

GEORGIA

Barrow County Auburn	16	0740EST			0	0	?	?	Thunderstorm Wind Small Hail
3 NE Winder	16	0750EST			0	0	?	?	Thunderstorm Wind

Thunderstorm winds downed numerous trees and power lines as the storms roared across Barrow County. At Auburn, large fallen tree limbs caused several automobile mishaps. Falling limbs trapped the occupants of other cars. In north Barrow County, numerous trees were broken or uprooted along Georgia Highway 11.

Jackson County Southern Jackson County	16	0750EST			0	0	?	?	Thunderstorm Wind
Hall County Flowery Branch	16	0750EST			0	0	?	?	Thunderstorm Wind
Fayette County Countywide	16	0800EST			0	0	?	0	Flash Flood
Peachtree City	16	0800EST			0	0	?	0	Thunderstorm Wind
	16	0800EST			0	0	?	0	Lightning

Power outages resulted after scattered trees were uprooted or broken by winds. Lightning damaged a home in Peachtree City. Considerable flooding developed at Tyrone and a mudslide occurred near Fayetteville due to flash flooding.

Chattooga County Trion	16	0735EST			1	0	0	0	Flood
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A man drowned when a swift current swept him across a flooded field while he was walking through the waters. M430

Clayton County Countywide	16	1050EST			0	0	?	?	Flash Flood
Fulton County Countywide	16	1050EST			0	0	?	?	Flash Flood
Atlanta	16	1050EST			0	0	?	?	Flash Flood
Cobb County Countywide	16	1050EST			0	0	?	?	Flash Flood
Marietta	16	1050EST			0	0	?	?	Flash Flood
De Kalb County Countywide	16	1050EST			0	0	?	?	Flash Flood
Decatur	16	1050EST			0	0	?	?	Flash Flood

Rainfall amounts near 3 inches developed over the Atlanta metropolitan area. Creeks and streams began rising and low-lying streets were flooded. Peachtree Creek in Atlanta flooded surrounding homes and yards with as much as 3 feet of water. In Clayton County at Jonesboro and in De Kalb County around Scottdale, several roads were damaged. In Fulton County, a street partially collapsed at Roswell.

Meriwether County Greenville	16	1045EST			0	0	?	?	Thunderstorm Wind Hail
Lamar County & N Milner	16	1100EST			0	0	?	?	Thunderstorm Wind

Scattered trees were downed across the county. One home had major damage when trees fell upon it. Power outages resulted when utility lines were torn down by the winds and falling trees.

Harris County Countywide	16	1100EST			0	0	0	0	Hail (0.75)
	16	1100EST			0	0	?	?	Thunderstorm Wind

A few power lines were torn down by falling trees and limbs.

Muscogee County Countywide	16	1110EST			0	0	?	?	Thunderstorm Wind
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Numerous large trees were uprooted or broken by the winds. A few power lines were torn down as a result. Heavy damage occurred to several utility sheds and fences, mainly over the eastern portion of the county.

Fayette County Peachtree City	16	1115EST			0	0	?	0	Flash Flood
Stewart County Countywide	16	1210EST			0	0	?	?	Thunderstorm Wind
Lumpkin	16	1235EST			0	0	?	?	Thunderstorm Wind

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

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		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

GEORGIA

Macon County Countywide	16	1210EST			0	0	?	?	Thunderstorm Wind
Oglethorpe	16	1235EST			0	0	?	?	Thunderstorm Wind
Schley County Countywide	16	1210EST			0	0	?	?	Thunderstorm Wind
Ellaville	16	1235EST			0	0	?	?	Thunderstorm Wind

Numerous trees were uprooted and large tree limbs were blown down by winds across the three-county area. Scattered power outages resulted when power lines were torn down by falling trees and winds.

Quitman County Countywide	16	1235EST			0	0	?	?	Thunderstorm Wind
Randolph County Countywide	16	1235EST			0	0	?	?	Thunderstorm Wind
Webster County Countywide	16	1235EST			0	0	?	?	Thunderstorm Wind
Houston County Warner Robins	16	1240EST			0	0	?	?	Thunderstorm Wind (G55)
Miller County Countywide	16	1315EST			0	0	?	?	Thunderstorm Wind
Colquitt	16	1337EST			0	0	?	?	Thunderstorm Wind
Early County Blakely	16	1315EST			0	0	?	?	Thunderstorm Wind
Arlington	16	1335EST			0	0	?	?	Thunderstorm Wind
Cedar Springs	16	1355EST			0	0	?	?	Thunderstorm Wind
Worth County Countywide	16	1315EST			0	0	?	?	Thunderstorm Wind
Sylvester	16	1337EST			0	0	?	?	Thunderstorm Wind
Baker County Countywide	16	1315EST			0	0	?	?	Thunderstorm Wind
Newton	16	1337EST			0	0	?	?	Thunderstorm Wind

Over the entire four-county area, numerous large trees were uprooted or broken by winds as a fast-moving squall line moved across the area. At Sylvester in Worth County, high winds caused considerable damage to portable signs, yard furniture, and other fixtures. Falling trees and limbs over the entire area tore down power lines, resulting in scattered outages.

Dougherty County Countywide	16	1315EST			0	0	?	?	Thunderstorm Wind
Albany	16	1337EST			0	0	?	?	Thunderstorm Wind
Albany	16	1337EST			0	0	?	?	Flash Flood
Lee County Cotton	16	1325EST			0	0	?	?	Thunderstorm Wind
Pelham	16	1335EST			0	0	?	?	Thunderstorm Wind
Hopefull	16	1345EST			0	0	?	?	Thunderstorm Wind
Mount Olive	16	1355EST			0	0	?	?	Thunderstorm Wind
Newton	16	1400EST			0	0	?	?	Thunderstorm Wind

Thunderstorm winds over both counties left scattered trees uprooted or broken. Falling debris and trees tore down power lines and resulted in scattered power outages.

Mitchell County 2 SW Pelham	16	1400EST			0	0	?	?	Thunderstorm Wind
Pelham	16	1400EST			0	0	?	0	Lightning

Scattered trees were blown down across Mitchell County and around Pelham. The winds and falling trees pulled down power lines. Additional outages resulted when lightning damaged a transformer at Pelham. Lightning busted the brick wall of a home and damaged an interior room and the foundation.

Greene County Penfield	16	1530EST-			0	0	?	?	Flood
	23	0700EST							
Morgan County Southern Morgan County	16	1530EST-			0	0	?	?	Flood
	23	0700EST							

The Oconee River rose above its flood stage of 11 feet at Penfield. Widespread flooding developed over agricultural lands and around residences along the river in Greene and Morgan Counties. The river crested at 19.3 feet on the 20th.

Cobb County Vinings	16	1500EST-			0	0	?	0	Flood
	17	0700EST							

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

GEORGIA

Smyrna Austell	17	0200EST			1	0	?	0	Flood
	17	0200EST-							
	19	1900EST			0	0	?	0	Flood

The Chattahoochee River flooded in Cobb County and caused minor damage to residences and businesses near the river. The river crested above the 14-foot flood stage by 0100 EST on the 17th. A man died at Smyrna between 2000 EST Friday and 0800 EST Saturday when his automobile sank into 11 foot flood waters near a local creek. M69V

Sweetwater Creek, a tributary to the Chattahoochee River, rose out of its banks at Austell early on the 17th. Several residences had water damages, along with recreational facilities near the creek. The creek crested at 13.0 feet around 0100 EST on the 18th; the flood stage is 10 feet.

Carroll County Whitesburg	17	1000EST-							
	18	1300EST			0	0	?	?	Flood
Coweta County Northwestern Coweta County	17	1000EST-							
	18	1300EST			0	0	?	?	Flood

The Chattahoochee River flooded at Whitesburg and over extreme northwestern Coweta County along the river. Agricultural lands and recreational facilities along the river sustained damages.

Gordon County Resaca	17	1600EST			1	0	0	0	Flood
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A boat overturned while two men were hunting along the flooded Conasauga River. One man was unharmed; the other drowned. M780

Bibb County Macon	18	0700EST-			0	0	?	0	Flood
	23	0100EST							

The Ocmulgee River rose over its banks at Macon and flooded several brick companies located along the river. The river crested near 21.4 feet on the 21st. The flood stage of the Ocmulgee River at Macon is 18 feet.

Rabun County Sky Valley	19	Early Morning			0	0	?	0	Flash Flood
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Heavy rainfall developed throughout the night and caused flash flooding over Rabun County. Several roads were closed as water pooled in low-lying areas. One road was washed out.

Elbert County Countywide	19	0200EST			0	0	4	?	Flash Flood
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County roads suffered damages estimated to cost near \$15,000. Seven bridges were damaged, a few culverts were washed out, and dirt roads were rutted.

Oglethorpe County Countywide	19	0200EST			0	0	5	?	Flash Flood
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The streams in the county were pushed out of their banks during the heavy rainfall over northeast Georgia. Several roads around Long Creek, Troublesome Creek, Indian Creek, Buffalo Creek, and other streams were closed as flooding developed. Fifteen small bridges were washed out across the county and a few small pond dams gave way.

Oconee County McNutt Creek	19	0300EST			0	0	?	0	Flash Flood
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After steady, heavy rainfall throughout the morning hours, a small earthen dam was loosened on McNutt Creek. The subsequent flooding damaged a private golf course.

Bartow County Lake Allatoona	19	0700EST-							
	27	1900EST			0	0	?	?	Flood

Cherokee County Lake Allatoona	19	0700EST-							
	27	1900EST			0	0	?	?	Flood

Backwater flooding on Lake Allatoona caused damage to nearby residences and recreational areas. The lake level rose to 846.5 feet by the 25th. The normal full pool level is 840.0 feet.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	GOODS	

GEORGIA

**Madison County
Carlton**

19	0400EST-				0	0	?	0	Flood
20	0700EST								

Although flooding along the Broad River near Carlton was mostly minor, several sand companies were damaged by flood waters. The river crested at 17.8 feet about 1300 EST on the 19th. The flood stage is 15 feet.

**Burke County
Burton's Ferry**

19	0700EST-				0	0	0	?	Flood
28	2400EST								

Extensive flooding of agricultural lands occurred on the Savannah River in Burke County. The river remained above the 15-foot flood stage throughout the last part of the month.

**Carroll County
Whitesburg**

19	1200EST-				0	0	0	?	Flood
20	1300EST								

**Coweta County
Northwestern
Coweta County**

19	1200EST-				0	0	0	?	Flood
20	1300EST								

Riverside agricultural lands were flooded along the Chattahoochee River.

**Toombs County
Southern Toombs
County**

20	0700EST-				0	0	0	?	Flood
28	2400EST								

**Appling County
Northern Appling
County**

20	0700EST-				0	0	0	?	Flood
28	2400EST								

The Altamaha River flooded at Plant Hatch north of Baxley. Considerable flooding developed over surrounding agricultural lands as the river rose to its highest level since March 1987. By the end of the month, the river had reached 78.7 feet. The flood stage at Plant Hatch is 74.5

**Muscogee County
Columbus**

22	0915EST				0	5	?	0	Thunderstorm Wind Hail
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A downburst wind event developed over downtown Columbus and caused extensive tornado-like damage. Numerous trees over the areas were down, along with power lines and utility poles. Several buildings had extreme structural damage. The wall of one business collapsed, a Boy's Club was severely damaged, and the windows of a service station were blown out. Severe roof damage occurred at a hotel and a nearby church. Several automobiles were damaged. The debris and trees in the storm were blown toward the northeast.

**Troup County
2 SW La Grange
La Grange
Countywide**

22	0945EST				0	0	0	0	Funnel Cloud
22	0950EST				0	0	4	0	Thunderstorm Wind
22	1000EST				0	0	5	0	Thunderstorm Wind

Thunderstorm winds toppled trees onto five mobile homes. The winds lifted another mobile home off its foundation; there were no injuries. An adjacent flea market lost the front of the building. Scattered trees were blown down across the county.

**Stewart County
8 NW Lumpkin**

22	0945EST				0	0	4	2	Thunderstorm Wind
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A chicken house, horse barn, and the roof of a dwelling were damaged by strong winds that ripped through the rural community. Treetops were also snapped and shingles were lifted from a neighboring home. Approximately one hundred birds were killed.

**Harris County
Waverly Hall**

22	1003EST	Short	50		0	0	3	0	Tornado (F1)
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A tornado was sighted by the public as it touched down in a wooded area near Waverly Hall. The tornado crossed Georgia Highway 85 south of the town and moved east-southeast through more woods. Many trees were snapped and uprooted. A few utility poles were also damaged along the path.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	COSTS	

GEORGIA

Meriwether County Warm Springs	22	1005EST			0	0	?	?	Thunderstorm Wind
Manchester	22	1005EST			0	0	?	0	Thunderstorm Wind
Woodbury	22	1015EST			0	0	?	?	Thunderstorm Wind

Scattered trees were blown down around Warm Springs, Manchester, and Woodbury. The roof of a laundromat, located near the intersection of Highway 85 and Highway 27A, was blown off by thunderstorm winds. Around Manchester, traffic lights were blown down, an outbuilding was carried away, and windows were blown out of a few buildings.

Coweta County 4 E Newnan	22	1025EST			0	0	0	0	Funnel Cloud
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A funnel cloud was sighted over the industrial park near Interstate 85.

Fayette County Peachtree City	22	1040EST			0	0	?	?	Thunderstorm Wind
Fayetteville	22	1040EST			0	0	?	?	Thunderstorm Wind

Scattered trees were blown down across Fayette County.

Wilcox County Abbeville	23	0700EST-			0	0	?	?	Flood
	28	2400EST							

The Ocmulgee River rose above its banks in Wilcox County and remained above the 12-foot flood stage through the remainder of the month. At Abbeville, the water caused minor damages to riverside agricultural and recreational areas.

Peach County 2 E Fort Valley	22	1050EST			0	0	?	?	Thunderstorm Wind
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Scattered trees were blown down.

Bibb County Macon	22	1100EST			0	0	?	?	Thunderstorm Wind
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In the western section of Macon, telephone poles and power lines were blown down as thunderstorms moved across the city.

Fulton County 2 E Alpharetta	22	1115EST			0	0	?	?	Thunderstorm Wind
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Ocee Forsyth County 4 NE Ocee	22	1145EST			0	0	?	?	Thunderstorm Wind
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Winds damaged a home in a subdivision as thunderstorms moved toward the Forsyth County line. Shingles were blown off several buildings near the Fulton-Forsyth county line. Scattered trees and power lines were blown down over northern Fulton and southern Forsyth Counties.

Hall County 5.2 W Flowery Branch	22	1150EST			0	0	?	?	Thunderstorm Wind
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4.5 WSW Flowery Branch	22	1150EST			0	0	?	?	Thunderstorm Wind
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4 SW Flowery Branch	22	1150EST			0	0	?	?	Thunderstorm Wind
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Scattered trees were uprooted over the islands along Highway 347 at Lake Sidney Lanier.

Chatham County Savannah	22	1255EST			0	0	?	?	Thunderstorm Wind
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Thunderstorm winds blew out several windows in an office building.

Richmond County Countywide	22	1400EST			0	0	?	?	Thunderstorm Wind
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Augusta	22	1400EST			0	1	?	?	Thunderstorm Wind
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Columbia County Countywide	22	1400EST			0	0	?	?	Thunderstorm Wind
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Martinez	22	1400EST			0	0	?	?	Thunderstorm Wind
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Scattered wind damage occurred over both counties. At Augusta several homes and businesses were damaged by trees and winds. Powerlines were downed over the area. A woman was injured by a falling pine.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	COSTS	

GEORGIA

Chatham County
Savannah
Savannah

22	1600EST					0	0	0	0	Funnel Cloud
22	1615EST					0	0	?	?	Thunderstorm Wind

A funnel cloud was sighted near the Savannah River, upstream from the downtown area. The thunderstorm's winds caused considerable damage to the downtown area. Several downtown businesses had extensive roof damage, including a shopping center, and windows were blown out of a few buildings. Numerous trees were uprooted or broken, resulting in several automobiles being severely damaged. Damages were spread over about a 4-mile area.

Taylor County
Countywide

22	1400EST					0	0	3	?	Thunderstorm Wind
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A few tree limbs were blown down by winds over Taylor County. The winds caused minor damage to several chicken houses on one farm. The estimated cost of the damage was \$1,000.

Decatur County
Climax

22	1700EST					0	0	?	?	Thunderstorm Wind
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Thunderstorm winds destroyed a barn. In addition, scattered trees were downed and tin siding ripped from several structures.

Muscogee County
Columbus

23	1640EST					0	0	?	?	Thunderstorm Wind
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Strong winds snapped some tree limbs, causing numerous power interruptions.

Floyd County
Countywide

24	1645EST					0	0	?	?	High Winds
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Scattered trees were blown down and power lines were downed by high winds over the county. A few vehicles were also damaged by falling trees.

Habersham County
Countywide
Stonepile

24	1645EST					0	0	?	?	High Winds
24	1645EST					0	0	?	0	High Winds

Scattered trees were blown down and power lines were downed by high winds over the county. The roof was blown off one home near Stonepile.

IDAHO

IDZ009

07	1300PST- 1700PST					0	0	4	0	Heavy Snow
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A snowstorm which hit Boundry and Bonner Counties during the late afternoon blanketed the area with 10 to 15 inches of snow. Wind not only made driving difficult, but stirred up between 2 and 2.5-foot drifts. Road crews reported having difficulty trying to keep roads clear because the snow was falling so fast.

IDZ007

16	0400MST- 1500MST					0	0	3	0	Heavy Snow
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Snow amounts of 12 to 16 inches were reported in the Sun Valley area and near 2 feet of snow in Hailey. This was the most snow to fall during one storm in the area in five years.

ILLINOIS

ILZ001>010
North and Central
Illinois

14						0	?	8	0	Winter Storm
15										Ice Storm

A major St. Valentine's Day winter storm blanketed northern Illinois with 6 to 12 inches of snow. The storm was accompanied by strong northeast winds that were gusting up to 35 to 40 mph. A combination of snow, freezing rain, and sleet fell to the south of the heavy snow area across the rest of the north-central part of the state. An ice storm of major proportions occurred across east-central Illinois, and was particularly heavy across Champaign, Macon, and Vermillion Counties. In northern Illinois, most of the heavy snow fell during the afternoon and evening of the 14th. By the early morning hours of the 15th, the precipitation tapered off and became light over most areas. The heaviest snow was concentrated across northeast Illinois and the Greater Chicago area and surrounding northwest suburbs. Snowfall of 10 inches or more occurred over Chicago's northwest suburbs and included the following amounts: 12.0 inches Buffalo Grove, 10.5 inches Schaumburg and Streamwood, 10.0 inches Hoffman Estates and Carpentersville. Chicago's official total of 9.7 inches fell at O'Hare International Airport (this amount tied for second place record for the heaviest 24 hour snowfall total since the "Blizzard of 1979" when 16.5 inches fell).

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CRODSS	

ILLINOIS

Snow amounts in the city of Chicago were around 8 to 9 inches. Joliet, 40 miles southwest of Chicago, reported about 7 inches. Further south in Kankakee snow amounts tapered off to around 2 inches where a combination of snow and sleet and freezing rain was reported (some downed power lines and tree limbs were reported in the Kankakee area because of freezing rain and ice accumulation). Other official snow reports from northern Illinois included: Moline 8.9 inches, Rockford 7.5 inches, Marseilles 3.0 inches, Peoria 2.2 inches. Further downstate, in east-central Illinois, the precipitation fell as freezing rain and created a heavy ice storm. Champaign, Vermillion, and Macon Counties were especially hard hit. The heaviest ice accumulations stretched from Decatur through Champaign-Urbana and the Danville area. Many trees, tree limbs, and power lines were brought down by the heavy ice accumulations. Widespread power outages were experienced by thousands of utility customers for periods that extended, in some cases, for over several days. Official precipitation measured at Champaign was 1.79 inches; much of which was in the form of freezing rain. In Champaign County alone, an estimated \$12 million in damage was caused by the ice storm. Across northern Illinois many rural roads were closed due to the heavy snow, severe drifting, and near blizzard conditions. Chicago's evening rush hour on the 14th was extremely difficult for area motorists and resulted in normal short commutes that became long travel times of 3 hours or more. O'Hare International Airport flight operations came to a halt during the evening of the 14th when the Airport was closed down to air traffic. Many airline flights were canceled or were delayed for very long periods.

ILZ001>008
Northern Illinois

24 Early 0 ? ? 0 Strong Winds

A strong cold front swept through Illinois early on the 24th and resulted in wind gusts of 50 to 60 mph across the northern part of the state. Some official reported wind gusts: Morris 59 mph, Chicago's O'Hare International Airport, Rockford, and Moline 54 mph, Peoria 53 mph.

INDIANA

INZ001-002-004
Northwest
Indiana

14 1600EST-
15 2300EST 0 0 ? ? Freezing Rain
and Snow

Freezing rain and snow, accumulating 2 to 4 inches over northwest Indiana, caused scattered power outages due to ice breaking tree limbs.

INZ003-006
Northeastern
Indiana

14 1600EST-
15 2300EST 0 0 6 ? Ice Storm

An ice storm left 16,500 customers without electricity across northeastern Indiana as thousands of trees, limbs, and power lines were downed due to the weight of ice produced by the freezing rain. Some trees fell on residences which caused additional damage. This ice storm was the worst since 1976 when 10,000 customers were without electricity. While total property damage was less than \$0.5 million, the cost of the storm was \$1.25 million due to labor costs for the additional manpower and cleanup. Additional electricity crews were brought in from as far away as central Ohio to restore power. Some customers were without power for as long as five days.

INZ005-007-008-
009-010
Central and
North Central
Indiana

14 1600EST-
15 2300EST 0 0 ? ? Freezing Rain

Heavy icing was reported from central Indiana to north-central sections of the state due to freezing rain. Power lines and tree limbs were coated with up to 1 inch of ice causing widespread power outages. In Tippecano County, 5,000 customers lost power because of tree limbs downing power lines and lines snapping from the accumulated weight.

Monroe, Morgan,
Brown Counties

15 0200EST-
2000EST 0 0 ? ? Flash Flooding

Heavy rains on the morning of the 15th caused flooding of numerous county and secondary roads in Morgan County. In Brown County, SR 135 was closed south of the town of Story with Smithville Road also closed. Many county and secondary roads in southern and western Monroe County were also closed due to high water.

Southern Indiana:
Owen, Orange, Scott,
Washington, Clark,
Harrison, Jefferson,
Crawford, Floyd,
Jackson and
Jennings Counties

15 0200EST-
2000EST 0 0 ? ? Flash Flooding

Heavy rains on the morning of the 15th caused flooding of numerous county and secondary roads in the affected counties.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

LOUISIANA

Claiborne Parish, entire parish 03 0500CST-1000CST 0 0 ? ? Flash Flood

Severe thunderstorms spawned tornadoes, and produced damaging wind gusts and hail over north Louisiana during the evening and early morning hours. The most significant damage occurred in extreme northern Winn Parish when a tornado touched down along an intermittent path from near Reidheimer to Mill. One person was injured when a mobile home was damaged near Reidheimer. Three houses were damaged near Brewton Mills and two houses were moved off their foundation. Numerous utility poles were snapped in half along Louisiana Highway 501. Two mobile homes received damage near Rocky Branch from wind gusts, and in Morehouse Parish, two mobile homes were damaged. Elsewhere damage was confined to downed trees. Heavy rains of 3 to 7 inches fell over extreme northwest Louisiana between 0330 CST-0800 CST. Cotton Valley reported 5.50 inches of rain during this time period. The heavy rain resulted in flash flood of small streams and creeks, and in the closure of a number of rural highways in the affected parishes.

Bossier Parish, 5 N Benton 09 1620CST 0 0 0 ? Hail (2.00)
 Webster Parish, Cotton Valley 09 1630CST 0 0 ? ? Hail (1.75)
 Caddo Parish, entire parish 09 1730CST-1800CST 0 0 5 ? Thunderstorm Wind
 Shreveport 09 1740CST 0 0 6 ? Thunderstorm Wind (G61) Hail (2.50)
 DeSoto Parish, 5 NW Hunter 09 1800CST 0 0 ? ? Hail (1.75) Thunderstorm Wind
 Bossier Parish, Bossier City 09 1800CST 0 0 6 ? Hail (1.75)
 Fillmore 09 1825CST 0 0 5 ? Hail (1.75) and Thunderstorm Wind

Damage to roofs in the Shreveport/Bossier City area of northwest Louisiana from large hail and wind-driven hail was estimated around \$3 million.

DeSoto Parish, Mansfield 09 1826CST 0 0 ? ? Hail (1.00), Thunderstorm Wind
 8 S Mansfield 09 1826CST 0 0 ? ? Thunderstorm Wind
 Webster Parish, Dixie Inn 09 1828CST 0 0 ? ? Hail (1.00), Thunderstorm Wind (G52)
 Bienville Parish, south portion 09 1840CST-1900CST 0 0 4 ? Thunderstorm Wind
 Sabine Parish, Converse to Zwolle 09 1840CST-1850CST 0 0 ? ? Thunderstorm Wind
 Claiborne Parish, Homer 09 1847CST 0 0 0 0 Hail (0.88)
 Red River Parish, 7 ESE Coughatta 09 1910CST 0 0 4 ? Thunderstorm Wind
 Matchitoches Parish, Powhatten 09 1843CST 0 0 ? ? Thunderstorm Wind
 5 NW Campiti 09 1915CST 0 0 0 ? Thunderstorm Wind
 Lincoln Parish, south portion 09 1925CST-1945CST 0 0 5 ? Thunderstorm Wind
 Grambling 09 1932CST 0 0 0 0 Hail (1.00)
 Union Parish, 8 SE Farmerville 09 1940CST 0 0 0 0 Hail (0.88)
 Jackson Parish, Hodge 09 1950CST 0 0 0 ? Hail (1.75) and Thunderstorm Wind
 Ouachita Parish, north portion 09 1945CST-2015CST 0 0 5 ? Thunderstorm Wind
 5 S Calhoun 09 1945CST 1 1 4 0 Thunderstorm Wind
 6 N Swartz 09 2000CST 0 0 ? 0 Thunderstorm Wind
 Morehouse Parish, south portion 09 1945CST-2015CST 0 0 5 ? Thunderstorm Wind
 Bastrop 09 2010CST 0 0 ? ? Hail (1.00)
 West Carroll Parish, 1 W Darnell 09 2035CST 0 0 ? ? Thunderstorm Wind

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

LOUISIANA

Richland Parish, Rayville	09	2040CST			0	0	?	?	Thunderstorm Wind
Franklin Parish Baskin to Winnsboro	09	2135CST-2150CST			0	0	4	?	Thunderstorm Wind
Tensas Parish, Newellton to St. Joseph	09	2200CST-2215CST			0	0	5	?	Thunderstorm Wind
Madison Parish, entire parish	09	2145CST-2210CST			0	0	5	?	Thunderstorm Wind

Severe thunderstorms moved rapidly across northern Louisiana bringing wind gusts of 70 to 90 mph and large hail to many locations. The severe weather started in the extreme northwest portion of the state at late afternoon. In Shreveport, winds gusted to above 70 mph downing a large number of trees. Several persons were trapped in their autos by the fallen trees. Plate glass storefront windows and roofs were damaged by hail and wind. As the severe thunderstorms advanced across the northern portion of the state, there were numerous reports of large hail, and downed trees and utility poles in rural areas. In the extreme southeast portion of Red River Parish and extreme northwest Matchitoches Parish, four homes suffered extensive damage from falling trees, and U.S. Highway 71 was blocked by fallen trees. At Ruston, windows were blown out of dormitories at Louisiana Technical University. A 47-year-old woman was killed south of Calhoun when her mobile home was rolled by high wind gusts. In Morehouse Parish, the roof of an elementary school in Collinston was blown off by thunderstorm wind gusts. In Tensas Parish, store front windows were blown out in Newellton, and a number of homes were damaged by thunderstorm wind gusts in the Lake Bruin area. The wall of a business near Tallulah was blown in by thunderstorm winds. The remainder of the wind damage was mainly to trees, power poles, and outbuildings. (F47M)

Acadia Parish, 6 NE Rayne	15	1111CST	.75	40	0	5	5	0	Tornado (F1)
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A tornado touched down northeast of Rayne, near the small community of Mire. One mobile home was rolled over and its five occupants received minor injuries. Two other mobile homes received damage along with a nearby house.

Bossier Parish, Taylortown	15	1350CST			0	0	?	?	Hail (1.00)
DeSoto Parish, 8 NE Stonewall	15	1357CST			0	0	?	?	Hail (1.00)
Webster Parish, Minden	15	1410CST			0	0	?	?	Hail (1.00)
3 SW Sibley	15	1412CST			0	0	?	?	Hail (1.75)
Caddo Parish, Caspiana	15	1405CST			0	0	?	?	Hail (1.75)
Claiborne Parish, 3 SW Athens	15	1421CST			0	0	?	?	Hail (0.88)
DeSoto Parish, 8 ENE Grand Cane	15	1425CST	2.0	40	0	0	5	?	Tornado (F1)
Bossier Parish, Koran	15	1450CST			0	0	0	?	Hail (1.00)
Bienville Parish, 2 N Gibsland	15	1445CST			0	0	?	?	Hail (1.75)
5 N Ringold	15	1510CST	.75	30	0	0	3	?	Tornado (F1)
Claiborne Parish, 5 SE Homer	15	1458CST	.75	30	0	0	3	?	Tornado (F1)
Webster Parish, 2 S Heflin	15	1515CST	.75	30	0	0	?	?	Tornado (F0)
Claiborne Parish, 5 SE Homer	15	1515CST			0	0	?	?	Hail (1.00)
Lincoln Parish, 2 N Dubach	15	1540CST			0	0	?	?	Hail (0.88) and Thunderstorm Wind
Union Parish, 2 E Spearsville	15	1550CST	.50	30	0	0	?	?	Tornado (F1)
Lincoln Parish, 2 E Unionville	15	1630CST			0	0	?	?	Hail (1.00)
Union Parish, 8 S Farmerville	15	1640CST			0	0	0	?	Hail (1.00)
Morehouse Parish, 10 NW Bastrop	15	1640CST			0	0	?	?	Hail (2.00)
Ouachita Parish, 8 SE Monroe	15	1747CST			0	0	?	?	Hail (1.75)

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

MISSISSIPPI

Leflore County Minter City	02	2135CST			0	0	4	0	Thunderstorm Wind Hail (0.75)
One trailer destroyed and six more were damaged.									
Grenada County Grenada	02	2210CST			0	0	4	0	Thunderstorm Wind
Several power lines and trees were blown down. One house had minor shingle damage and a bannister was blown off a porch.									
Grenada County Holcomb	02	2210CST			0	0	4	0	Thunderstorm Wind
Several trees and power lines were blown down. Wind damaged the roof of a store and damaged two porches on houses.									
Yalobusha County 3 S Coffeerville	02	2230CST			0	0	?	0	Thunderstorm Wind
Several power lines and large tree limbs were blown down.									
Calhoun County Bruce	02	2255CST			0	0	?	0	Thunderstorm Wind Hail (1.00)
Several trees were blown down.									
Coahoma County Clarksdale	03	0015CST			0	0	?	0	Hail (0.80)
Marshall County	03	0500CST- 1000CST			0	0	5	?	Flash Flooding
Several bridges were washed out and numerous roadways flooded. Widespread flooding of low-lying areas.									
Coahoma County Clarksdale	03	0800CST- 1400CST			0	0	5	0	Flash Flooding
More than 8 inches of rain fell in Clarksdale in less than a 24-hour period. Eighty-five percent of the city streets were flooded and as many as 40 homes were flooded.									
Union County New Albany	03	0900CST- 1400CST			0	0	5	0	Flash Flooding
Numerous streets and businesses were flooded. Several streets had to be closed.									
Rankin County Leesburg	03	1500CST			0	0	4	0	Thunderstorm Wind
A steeple was blown off a church and several trees were blown down.									
Meshoba County Philadelphia	03	1615CST			0	0	4	0	Thunderstorm Wind
Numerous trees and power lines were blown down. Damage to several roofs of houses.									
Meshoba County 5 E Philadelphia	03	1630CST			0	0	5	0	Thunderstorm Wind
At least 12 roofs of houses were damaged. Extensive damage to a country club. Numerous trees and power lines blown down.									
Jasper County Stringer to Heidelberg	03	1630CST- 1700CST			0	0	4	0	Thunderstorm Wind
Three chicken houses with tin blown off the roof. Nineteen trees with tops broken out and 9 trees blown down.									
Noxubee County Macon	03	1645CST			0	0	?	0	Thunderstorm Wind
Several trees were blown down. Also marble-size hail.									

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MISSISSIPPI

Jasper County Heidelberg	03	1645CST			0	0	?	0	Thunderstorm Wind Power company reported power outages due to numerous trees and power lines blown down.
Marion County 8 E Columbia	03	1700CST			0	0	4	0	Thunderstorm Wind A large feed bin was blown over and several large limbs were blown out of trees.
Newton County Union	03	1730CST			0	0	?	0	Thunderstorm Wind Several trees were blown down onto power lines causing scattered power outages.
Kemper County Scooba	03	1745CST			0	0	?	0	Thunderstorm Wind Several trees were blown down onto power lines.
Lee County Tupelo	03	1800CST- 2000CST			0	0	0	0	Flash Flooding Lowland flooding along Town Creek in Tupelo.
Jasper County 10 E Bay Springs	03	1820CST			0	0	?	0	Thunderstorm Wind Numerous trees were blown down. One tree was across Highway 528.
Lee County 10 E Saltillo	09	1845CST			0	0	3	0	Thunderstorm Wind A few trees were blown down. Wind did minor damage to a house.
Bolivar County Pace	09	1927CST			0	0	?	?	Hail (0.50)
Leflore County Minter City	09	1928CST			0	0	4	0	Thunderstorm Wind Roof blown off a mobile home.
Yalobusha County Coffeeville	09	1930CST			0	0	4	0	Thunderstorm Wind A roof was blown off a house. Numerous trees were blown down onto power lines. One tree fell on a house.
Sunflower County Moorhead	09	1930CST			0	0	?	0	Thunderstorm Wind Minor damage to trees and power lines.
Calhoun County Bruce	09	2000CST			0	0	4	0	Thunderstorm Wind Several trees were blown down across roadways. One tree fell on a house. One barn was damaged. Wind blew the roof off a carport of a house.
Washington County Hollandale	09	2000CST			0	0	?	0	Thunderstorm Wind Several trees and power lines blown down.
Yalobusha County Water Valley	09	2000CST			0	0	4	0	Thunderstorm Wind Several trees and power lines were blown down across roadways. One tree was blown down on a house.
Tishomingo County Belmont	09	2020CST			0	0	?	?	Hail (0.50)
Calhoun County Big Creek	09	2030CST	0.5	20	0	0	4	0	Tornado (F0) One house had minor damage.

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FEBRUARY 1990

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MISSISSIPPI

Lee County Tupelo	09	2035CST			0	0	?	0	Thunderstorm Wind A few trees and power lines were blown down.
Calhoun County 1 N Bruce	09	2035CST			0	0	?	0	Thunderstorm Wind Several trees were blown down.
Warren County Oak Ridge	09	2230CST			0	0	3	0	Thunderstorm Wind Windows were blown out of a house and several trees were blown down.
Madison County Flora	09	2230CST			0	0	4	0	Thunderstorm Wind Several metal buildings were blown down and scattered across Highway 49.
Hinds County 2 E Edwards	09	2315CST			0	0	?	0	Hail (1.50)
Hinds County Raymond	09	2319CST			0	0	?	0	Thunderstorm Wind (G52)
Hinds County Learned	09	2325CST			0	0	4	0	Thunderstorm Wind One home had roof damage. Another home had the porch blown away. A trailer was damaged. Numerous trees were blown down.
Hinds County Raymond	09	2325CST			0	0	5	0	Thunderstorm Wind A storage shed was demolished. A school had major roof damage. Several trees were uprooted.
Hinds County 1 N Clinton	09	2330CST			0	0	?	0	Thunderstorm Wind Several trees blown down.
Hinds County Jackson	09	2330CST			0	0	5	0	Thunderstorm Wind Several buildings were damaged in downtown Jackson and two miles southwest of downtown Jackson another building was damaged.
Madison County 2 SW Canton	09	2330CST			0	0	5	0	Thunderstorm Wind Several rooms unroofed on a motel. Damage to signs, trees, and power lines. A small aircraft was damaged. Several businesses had minor damage.
Rankin County Sand Hill	09	2340CST			0	0	4	0	Thunderstorm Wind Lightpoles, transformers, and trees were blown down. Minor damage to a store and the roof of a house.
Hinds County Jackson	09	2345CST			0	0	4	0	Thunderstorm Wind Aluminum siding was blown off a building.
Madison County 7 E Canton	09	2350CST	1.0	40	1	4	5	0	Tornado (F1) The tornado struck a mobile home with 5 people inside. Four people were injured and one fatality in the mobile home. One house had roof damage and numerous trees were blown down. Several trees fell on a couple of houses. M36M
Yalobusha County Coffeerville	09	1930CST			0	0	4	0	Thunderstorm Wind A roof was blown off a house. Numerous trees were blown down onto power lines. One tree fell on a house.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

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		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

MISSISSIPPI

Sunflower County Moorhead	09	1930CST			0	0	?	0	Thunderstorm Wind Minor damage to trees and power lines.
Calhoun County Bruce	09	2000CST			0	0	4	0	Thunderstorm Wind Several trees were blown down across roadways. One tree fell on a house. One barn was damaged. Wind blew the roof off a carport of a house.
Washington County Hollandale	09	2000CST			0	0	?	0	Thunderstorm Wind Several trees and power lines were blown down.
Yalobusha County Water Valley	09	2000CST			0	0	4	0	Thunderstorm Wind Several trees and power lines were blown down across roadways. One tree was blown down on a house.
Tishomingo County Belmont	09	2020CST			0	0	?	?	Hail (0.50)
Calhoun County Big Creek	09	2030CST	0.5	20	0	0	4	0	Tornado (F0) One house had minor damage.
Lee County Tupelo	09	2035CST			0	0	?	0	Thunderstorm Wind A few trees and power lines were blown down.
Calhoun County 1 N Bruce	09	2035CST			0	0	?	0	Thunderstorm Wind Several trees were blown down.
Warren County Oak Ridge	09	2230CST			0	0	3	0	Thunderstorm Wind Windows were blown out of a house and several trees were blown down.
Madison County Flora	09	2230CST			0	0	4	0	Thunderstorm Wind Several metal buildings were blown down and scattered across Highway 49.
Hinds County 2 E Edwards	09	2315CST			0	0	?	0	Hail (1.50)
Leake County Carthage	10	0000CST			0	0	4	0	Thunderstorm Wind Numerous trees and power lines were blown down in and around Carthage. Several of the trees fell onto houses. Wind caused damage to several roofs of houses and a couple of storage sheds were destroyed.
Lee County Tupelo	10	0000CST- 0300CST			0	0	0	0	Flash Flooding Lowland flooding along Town Creek in Tupelo.
Pike County	10	0015CST			0	0	?	0	Thunderstorm Wind Thirty-five to 40 trees were blown down at Percy Quinn State Park. Several trees blocked Highway 51 just north of Fernwood. Numerous trees were blown down in Summit.
Winston County Louisville	10	0025CST			0	0	?	0	Hail (0.75) Thunderstorm Wind A few trees were blown down across roads.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

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MISSISSIPPI

Lincoln County 2 NE Ruth	10	0025CST			0	0	4	0	Thunderstorm Wind
Two roofs were blown off houses in the Shady Grove community. Numerous trees and large limbs were blown down.									
Walthall County Tylertown	10	0030CST			0	0	4	0	Thunderstorm Wind
Several trees blown down onto roadways. One tree fell on a house. One house had the roof partially blown off.									
Neshoba County 4 N Philadelphia	10	0035CST			0	0	4	0	Thunderstorm Wind
Numerous trees were blown down. Several houses suffered minor to moderate roof damage.									
Lamar County Lumberton	10	0042CST			0	0	?	0	Thunderstorm Wind
Numerous trees were blown down or uprooted. Several homes had substantial roof damage.									
Newton County Newton	10	0045CST			0	0	4	0	Thunderstorm Wind
Roofs of two houses were damaged by wind.									
Newton County 7 E Newton	10	0056CST			0	0	?	0	Thunderstorm Wind
Several trees were blown down on Interstate 10.									
Jasper County Stringer	10	0058CST			0	0	?	?	Hail (0.85)
Kemper County 12 NW De Kalb	10	0100CST			0	0	?	0	Thunderstorm Wind
Several trees were blown down in the Preston community.									
Lauderdale County 10 NW Meridian	10	0115CST			0	0	?	0	Thunderstorm Wind
Several trees were blown down on Highway 494.									
Jones County Laurel	10	0115CST			0	0	4	0	Thunderstorm Wind
Roofs were blown off of several buildings and windows were knocked out of two cars. Numerous trees and power lines were blown down. A trailer was blown off its blocks.									
Lamar County Oak Grove	10	0120CST			0	0	?	0	Thunderstorm Wind
Several trees were blown down.									
Lauderdale County Bailey	10	0120CST			0	0	4	0	Thunderstorm Wind
Several trees were blown down. Wind damaged a carport, a utility room of a house, and the roofs of several other houses. The wind took the roof off a barn and completely overturned a house trailer, destroying all the contents.									
Forrest County Petal	10	0125CST			0	0	4	0	Thunderstorm Wind
Several trees were blown down. One tree fell on a house causing severe damage.									
Clarke County	10	0130CST			0	0	4	0	Thunderstorm Wind
Numerous trees were blown down and several highways were blocked in the northern portion of Clarke County. Several homes were damaged in Enterprise from falling trees.									
Perry County 6 S Runnelstown	10	0150CST			0	0	?	0	Thunderstorm Wind
Several trees were blown down.									

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MISSISSIPPI

Wayne County 8 SW Waynesboro	10	0152CST			0	0	5	0	Thunderstorm Wind
									Three houses had major damage and several had minor damage. One barn was destroyed and many trees were blown down.
Green County McLain	10	0244CST			0	0	?	0	Thunderstorm Winds
									Several trees and power lines were blown down.
Jackson County 9 NE Moss Point	10	0630CST	2.0	30	0	0	5	0	Tornado (F1)
									A tornado touched down briefly in the Franklin Creek community. It damaged a roof on a commercial business. It damaged several houses and blew down numerous sheds.
Jackson County 5 E Pascagoula	10	0650CST			0	0	5	0	Thunderstorm Wind
									Wind damaged eight houses. Several windows were blown out. There was damage to several storage sheds and damage to a trailer.
Jackson County 2 E Orange Grove	10	0655CST			0	0	5	0	Thunderstorm Wind
									Five mobile homes were heavily damaged. Several trees were uprooted.
Copiah County 7 E Crystal Springs	15	0910CST			0	0	5	0	Thunderstorm Winds
									One house was totally destroyed and 8 other houses received light to moderate damage in the Bushy Springs Community. Numerous trees and power lines were blown down and roads were blocked.
Newton County Union	15	0920CST			0	0	5	0	Thunderstorm Wind
									At least six businesses sustained wind damage. Several trees were blown down.
Neshoba County	15	0940CST			0	0	?	0	Thunderstorm Wind
									Numerous trees were blown down in the southwest corner of the county.
Newton County 1 W Newton	15	1030CST			0	0	?	?	Hail (0.85)
Lauderdale County Suqualena	15	1200CST			0	0	?	0	Thunderstorm Wind
									A few trees were blown down.
Lauderdale County 10 W Meridian to 3 NW Meridian	15	1252CST	8.0	20	0	0	?	0	Tornado (F0)
									A tornado was spotted by both the National Weather Service in Meridian and the Naval Air Station in Meridian. Only a few trees were damaged by the tornado.
Simpson County 7 SE Mendenhall	15	1300CST			0	0	?	0	Thunderstorm Wind
									Numerous trees were blown down across the road.
Smith County Raleigh	15	1315CST			0	0	?	0	Thunderstorm Wind
									Several trees were blown down.
Jefferson Davis County 2 W Prentiss	15	1320CST			0	0	0	0	Funnel Cloud
Amite County Liberty	15	1330CST			0	0	?	0	Thunderstorm Wind Hail (0.75)
									Several trees were blown down on Highway 24.

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MISSISSIPPI

Smith County 1 SW Nize	15	1345CST			0	0	?	0	Thunderstorm Wind Several trees were blown down onto road.
Covington County Mt. Olive	15	1350CST			0	0	?	0	Thunderstorm Wind Several trees were blown down.
Lauderdale County 8 N Meridian	15	1350CST	0.5	20	0	0	?	0	Tornado (F0) A tornado was confirmed by weather observer at Meridian Naval Air Station.
Pike County McComb	15	1400CST			0	0	0	0	Funnel Cloud
Lincoln County East Lincoln	15	1410CST			0	0	?	0	Thunderstorm Wind Several trees were blown down.
Lawrence County 5 NW Topeka	15	1415CST			0	0	4	0	Thunderstorm Wind A roof was blown off a house.
Smith County 3 N Raleigh	15	1418CST			0	0	?	0	Thunderstorm Wind Several trees were blown down on Highway 35 North.
Simpson County Magee	15	1530CST- 1730CST			0	0	5	0	Flash Flooding Numerous streets and roads were flooded and had to be closed. Several houses were flooded.
Smith County Raleigh	15	1535CST- 1730CST			0	0	?	0	Flash Flooding Numerous streets and roads were flooded. One trailer home was flooded.
Lauderdale County Topton	15	1630CST			0	0	4	0	Thunderstorm Wind Several trees were blown down. One tree fell on a house.
Hinds County Jackson	15	1640CST			0	0	?	0	Hail (2.75)
Adams County Natchez	15	1640CST			0	0	4	0	Thunderstorm Wind (G64) Top and sides of a tin storage building were blown off. One trailer was demolished.
Adams County Natchez	15	1645CST- 1900CST			0	0	?	0	Flash Flooding Local flooding of low-lying areas. Thirteen inches of water standing on a road. There were numerous mud slides.
Hinds County Jackson	15	1645CST			0	0	?	0	Hail (1.75) There was golf ball-size hail on Clinton Boulevard.
Sunflower County Parchman	15	1645CST			0	0	0	0	Hail (0.50)
Washington County Stoneville	15	1805CST			0	0	?	0	Hail (0.85)
Sunflower County Sunflower	15	1826CST			0	0	?	0	Hail (1.75)
Leflore County Schlater	15	1835CST			0	0	?	0	Hail (0.75)

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MISSISSIPPI

Tallahatchie County Cascilla	15	1900CST			0	0	?	0	Thunderstorm Wind Hail (0.75)
									Several trees were blown down.
Yalobusha County Scobey	15	1915CST			0	0	?	0	Hail (0.50)
Lamar County Baxterville	15	2210CST			0	0	?	0	Thunderstorm Wind
									Several trees were blown down.
Clarke County 5 NW Quitman	15	2215CST			0	0	?	?	Hail (0.75)
Lauderdale County	15	2300CST			0	0	?	0	Thunderstorm Wind
									Several trees were blown down across a railroad track in southeast Lauderdale County.
Jasper County Stringer	16	0002CST			0	0	?	?	Hail (0.85)
Jasper County Stringer	16	0009CST			0	0	?	?	Hail (0.85)
Jefferson Davis County 5 S Carson	16	0022CST			0	0	?	0	Thunderstorm Wind
									Several trees and power lines were blown down. Several barns and outbuildings were damaged.
Jones County Soso	16	0025CST			0	0	?	?	Hail (0.75)
Covington County 10 W Williamsburg	16	0050CST			0	0	?	?	Hail (1.75)
									Golf ball-size hail at a fish camp east of Bowie Creek.
Jasper County Heidelberg	16	0100CST			0	0	?	?	Hail (0.75)
Marion County Columbia	16	0110CST			0	0	?	0	Thunderstorm Wind
									Several trees were blown down across a road.
Lamar County Lumberton	16	0515CST			0	0	?	0	Thunderstorm Wind
									Numerous trees were blown down.
Pike County Near Holmesville	16	1930CST			2	0	4	0	Flooding
									A car drove into flooded waters along the Bogue Chitto River. There were two adults and two children in the car. One child was washed away and drowned. The other child died from exposure. F07V M04V
Forrest County Hattiesburg and Petal	22	0000CST- 0300CST			0	0	5	0	Flash Flooding
									Twenty-four homes were flooded and 30 to 40 streets were closed. A bridge in Hattiesburg was washed out.
Harrison County Pass Christian	22	0115CST			0	0	5	0	Thunderstorm Wind
									Damage to 18 homes. Several automobiles and outside storage sheds were damaged. Numerous trees were blown down.

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MISSOURI

Cape Girardeau
13 NMW Cape
Girardeau

15 0235CST 0 0 0 0 Thunderstorm Wind
Thunderstorm winds to 56 knots.

New Madrid
2 E Portageville

15 1408CST 0.25 50 0 0 3 0 Tornado (F1)
A tornado touched down briefly and damaged some trees.

New Madrid
5 SSW Sikeston

15 1424CST 0.25 50 0 0 0 0 Tornado (F1)
A tornado touched down briefly. No damage reported.

MONTANA

MTZ003 7 2150MST 0 0 0 0 High Winds (G55)
Strong winds reported west of Choteau.

MTZ007 8 0400MST-1500MST 0 0 0 0 High Winds (G65)
Strong winds Livingston, Big Timer areas.

MTZ007 9 0834MST-1200MST 0 0 0 0 High Winds (G54)

MTZ003 9 1430MST 0 0 0 0 High Winds (G76)
Strong winds reported west of Choteau.

MTZ007 11 0400MST-2000MST 0 0 0 0 High Winds (G56)

MTZ003 11 0930MST-1700MST 0 0 4 5 High Winds (G59)
Strong winds from 40 to 70 mph blew along the east slopes. Widespread blowing dust resulted in near zero visibilities at times hampering highway travel. Two minor accidents caused by blowing dust closed Highway 87 for a short time during the afternoon north of Great Falls.

MTZ001 11 1200MST-1500MST 0 0 4 0 High Winds
Strong winds toppled trees on Big Mountain near White Fish resulting in power outages. Some trees were also blown down around Columbia Falls and Swan Lake.

MTZ003 11 2300MST-12 0000MST 0 0 0 0 Heavy Snow
Heavy snow fell in the mountains around East Glacier (6 inches). Two to 4 inches over the plains.

MTZ007 12 0600MST-1100MST 0 0 0 0 Heavy Snow
Three to 6 inches of snow fell across the Zone.

MTZ007 20 0700MST 0 0 0 0 High Winds (G53)

MTZ003 20 1131MST-2000MST 0 0 0 0 High Winds (G64)
Strong winds all afternoon front range of Rockies.

NEBRASKA

NEZ008-009-014
Central
Nebraska

02 1500CST-03 0300CST 0 0 1 1 Heavy Snow

Six inches of snow fell at Grand Island, Albion, and Wolbach.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

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NEBRASKA

NEZ001-002-003-005
Panhandle and North Central Nebraska

12	2100CST-								
15	0500CST	0	0	2	1	Heavy Snow			

Six inches or more of snow fell north of a line from Harrisburg to Ellsworth to Springview. Heaviest reported snowfall included 13 inches at Agate and 9 inches at Hemingford.

NEVADA

NVZ003
Extreme Western Nevada

03	1230PST-								
	1630PST	0	0	2	0	High Winds			

High winds developed along the lee of the Sierra Nevada in the Reno area. Wind gusts to 90 mph were observed in southwest Reno where minor damage from blowing debris was reported.

NVZ006
Northeast Nevada

06	2200PST-								
07	0600PST	0	0	0	0	Heavy Snow			

A slow moving Pacific cold front dropped heavy snow on the southern half of Elko County. New snow amounts ranged from 4 inches at Wells to as much as a foot between Spring Creek and Lamoille.

NVZ001
The Nevada Portion of the Truckee-Tahoe Area

15	2100PST-								
16	1600PST	0	0	?	0	Blizzard			

NVZ003
Extreme Western Nevada

16	0400PST-								
	1600PST	0	0	?	0	Heavy Snow			

NVZ006-007
Northeast and East Central Nevada

16	2100PST-								
17	0800PST	0	0	0	0	Heavy Snow			

A slow moving cold Pacific storm moved into the Sierra Nevada and extreme western Nevada. Heavy snow, falling at a rate of up to 4 inches per hour, combined with very strong winds to produce blizzard conditions in the mountains of the Truckee-Tahoe area. In the higher elevations the wind chill dropped well below zero. Up to 4 feet of new snow fell in the Carson Range, east of Lake Tahoe.

In extreme western Nevada, heavy snow fell in a fairly narrow band between the Carson Valley and the Gerlach area. Snowfall amounts ranged from 7 inches in the Gerlach area to 12 to 18 inches in the Reno-Sparks-Carson City-Gardnerville area. The greatest amount reported was 21 inches in Verdi.

The storm redeveloped over northeast and east-central Nevada. Heavy snow blanketed southern Elko County and White Pine County. Four to 6 inches of new snow was reported in valley locations and 10 to 12 inches fell in the higher elevations.

NEW HAMPSHIRE

NHZ ALL

03	1900EST-								
04	2300EST	0	0	5	0	Heavy Snow			

Low pressure over central Kentucky (1006mb) and another (1012mb) near Norfolk, Virginia, combined with high pressure over eastern Quebec to bring heavy snow to northern New England. The low near Norfolk strengthened as it moved northeast off the southern New England coast. The trailing low also deepened as it followed the ocean storm. The two eventually merged south of Nova Scotia late on the 4th. The highest snow totals occurred in the White Mountains and the southeast coast. Heavy snow caused a roof to collapse at Saint Mary's Parish Hall on Chestnut Street in Dover. Sagging roofs prompted two schools to evacuate in Conway. Slippery roads caused a fatal accident on Route 16 in Rochester. Snow totals (in inches) included:

Franconia	14	Lincoln	8
Portsmouth	13	Walpole	8
Manchester	10	Salem	8
North Conway	9	Marlow	7
Gilford	9	Concord	7
Rochester	9	Nashua	7
Berlin	8	Keene	6

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

NEW YORK, Central

NYZ012-013-020

Saratoga/Lake George,
Lower Hudson Valley,
Capital Dist. Region
Saratoga County
Malta

24	2330EST-								
25	1200EST				0	53	6	0	Snow
25	1455EST-								
	1505EST				0	55	6	0	Blowing Snow

A major winter snow storm hit the area. Several weather related accidents resulted from poor visibility, gusty winds, and slippery roads. About 3:00 p.m., blowing snow created whiteout conditions along I-87 in Saratoga County. A chain reaction accident occurred when drivers were unable to see the road or other vehicles. Similar whiteout conditions occurred in the lower Hudson Valley. A 16-mile stretch of the thruway had to be closed due to zero visibility and three multiple-car accidents.

NEW YORK, Western

NYZ001-021-022-
002-003-004-005

02	1200EST-				0	0	4	0	Heavy Snow
	1800EST								

A cold front passed over the region and stalled just south of the state across Pennsylvania. A series of disturbances moved along the front and brought heavy snow and some ice to portions of western and central New York. New York State Police reported that all roads were snow covered and were advising against all unnecessary travel. Numerous schools in the Finger Lakes region were closed due to the heavy snow. Snowfall amounts ranged up to 8 inches. Reports included: Buffalo, Erie County, 7 inches; Churchville, Monroe County, 8 inches; Oswego, Oswego County, 7 inches; Syracuse, Onondaga County, 7 inches.

NYZ001-002-005-004

Erie County
Buffalo
Monroe County
Rochester
Onondaga County
Syracuse
Oswego County
Pulaski

15	0000EST-				0	0	3	0	Heavy Snow
	1500EST								

NYZ021-022

Orleans County
Lyndonville
Niagara County
North Tonawanda
Chautauqua County
Brocton; Dunkirk

15	0000EST-				0	0	4	0	Heavy Snow Ice Storm
	1500EST								

A nearly stationary front extended from Kentucky to Virginia. Moist air was lifted over the front and fell as snow and in some areas, freezing rain. Snowfall ranging from 4 to 10 inches extended in a band from Buffalo, across Rochester and the Finger Lakes to Syracuse. Some reports included: 10 inches at Buffalo, 7 inches at Fulton, 5 inches at Pulaski. Schools closed throughout the Finger Lakes region. State Police reported numerous accidents and stalled and disabled vehicles. The Monroe County Airport at Rochester closed briefly due to the snow. Over some sections of western New York the snow changed to freezing rain which downed utility lines, snapped trees, and caused extensive damage. The majority of schools in Chautauqua, Cattaraugus, Allegany, Niagara, and Orleans counties were closed due to the potentially hazardous road conditions. An estimated 40,000 customers were without power in Niagara and Orleans counties. Ice coatings ranged from 1/2 to 1 inch. A ten-car pileup on the south Grand Island bridge was blamed on the icy road conditions. States of emergency were declared in the towns of Lyndonville, Orleans County, and North Tonawanda, Niagara County.

NYZ001-021-022-
002-003-004-005

24	2000EST-				0	0	3	0	Heavy Snow
25	1200EST								

Intensifying low pressure over Indiana tracked east through Pennsylvania to the Atlantic Coast and spread moisture across all of western and central New York. Snowfall amounts ranged from 4 to 8 inches throughout the area. Arctic air crossing the mild waters of Lake Ontario also produced localized lake effect snow squalls. New York State Police reported scattered downed trees and power lines. Roads were extremely icy in most areas.

NORTH CAROLINA

Union County
2 NE Monroe

04	1320EST				0	0	0	0	Thunderstorm Winds
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Thunderstorm winds blew down trees and destroyed a large chicken house near Monroe.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

NORTH CAROLINA

Rutherford County
Cliffside

10 0830EST 0 0 4 0 Thunderstorm Winds

Thunderstorm winds blew down pine trees and destroyed two barns near Cliffside.

Cleveland County

10 0900EST 0.4 50 0 0 5 0 Tornado (F2)

A tornado touched down briefly 6 miles south of Shelby at the intersection of State Highways 18 and 180. Twelve houses were damaged, three received severe damage. One mobile home was destroyed and three were damaged. Numerous trees were uprooted or broken off.

Western Lincoln County

10 0905EST 0 0 0 0 Thunderstorm Winds

Gaston County

10 0920EST 0 0 0 0 Thunderstorm Winds

Lincoln County

10 0930EST 0 0 5 0 Thunderstorm Winds

Lincolnton

Iredell County

10 0947EST 0 0 5 0 Thunderstorm Winds

1 N Mooresville

Rowan County

10 1005EST 0 0 0 0 Funnel Cloud

Rockwell

Davidson County

10 1015EST 0 0 5 0 Thunderstorm Winds

Lexington

Guilford County

10 1033EST 0 0 0 0 Thunderstorm Winds

Sedgefield

0 0 0 0

During the morning hours, severe thunderstorms moved from the foothills to the central part of the state. In Cleveland and Gaston counties, trees and power lines were blown down. In Lincolnton, trees and power lines were downed and windows were blown out of an automobile dealership. A 20-foot section was blown off the roof of an elementary school gymnasium. Fifteen barns and outbuildings and ten homes were damaged near Mooresville in Iredell County. A funnel cloud was sighted near Rockwell. A mobile home was destroyed and windows were blown out of a service station near Lexington. Trees were blown down and the roof was blown off a house near Sedgefield.

Dare County

Manteo

10 1640CST 1.0 50 0 0 0 0 Waterspout Tornado

A waterspout moved inland from Croatan Sound at a point about 3 miles south of Manteo. The tornado was observed as it moved on shore by the weather observer at the Manteo airport. The tornado dissipated shortly after moving on shore. No damage was reported.

Halifax County

10 1320EST 15 70 0 0 5 0 Tornado (F1)

Very fast moving thunderstorms swept across Halifax County producing what was likely both downburst wind damage and a small tornado. The downburst damage occurred near Ringwood where three outbuildings were damaged, trees were blown down, and a satellite dish was destroyed. The tornado first touched down near Interstate 95, one mile north of State Road 481. The tornado moved northeast producing intermittent damage and lifted at the intersection of US Highway 301 and State Highway 903, or about 2 miles south of Halifax. The tornado damaged barns and grain storage bins and blew down trees along the path. Tin roofs and porches were damaged on four houses. There were numerous visual sightings of the tornado on the ground along the path. Damage estimates were near \$70 thousand.

Cherokee County

Murphy area

16 0700EST 0 0 5 0 Flash Flood

Clay County

16 0800EST 0 0 5 0 Flash Flood

near Hayesville

16 0800EST 0 0 5 0 Flash Flood

Macon County

16 0800EST 0 0 4 0 Flash Flood

Jackson County

0 0 0 0

Heavy rain and thunderstorms dropped 5 to 6 inches of rain in less than four hours over several southwest counties. Flash flooding began after sunrise and lasted past noon. In Cherokee County, people were evacuated from homes in low areas. Water blocked parts of US Highway 64 as did three major rock slides. Damage estimates were near \$150,000. In Clay County near Tusquittee Creek many people were evacuated by boat. One house and three mobile homes were destroyed. Fifteen houses and mobile homes were flooded. An unknown number of cattle were lost. Damage estimates were near \$190,000. In Jackson County, an earthen dam failed completely blocking highway 441 near Cowee. Eighty patients were evacuated from a nursing home near Cullowhee. In Macon County, numerous mud slides and some small dam failures were reported. One mobile home was destroyed and three others were flooded.

Transylvania County

Rosman

16 0700EST 1 0 4 0 Flood

The heavy rains also produced flooding on the French Broad River. A 49-year-old man was swept away by flood waters while tending a trout farm near the French Broad River. Although the river crested above flood stage at Rosman, no significant damage was reported. M490 Flood

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

NORTH CAROLINA

Robeson County 4 NW Maxton	16	1548EST			0	0	4	0	Thunderstorm Winds
Harnett County near Bunnlevel	16	1600EST			0	1	4	0	Thunderstorm Winds
Sampson County Roseboro	16	1650EST			0	0	0	0	Thunderstorm Winds

In Harnett County, thunderstorm winds blew down trees and overturned mobile homes near Bunnlevel. One person was injured. Three mobile homes were damaged near Maxton.

Iredell County	22	1545EST			0	0	0	0	Thunderstorm Winds
Mecklenburg County Charlotte	22	1555EST			0	0	0	0	Funnel Cloud
Mecklenburg County Charlotte	22	1600EST			0	0	0	0	Thunderstorm Winds
Rowan County 3 SE Salisbury	22	1605EST			0	0	0	0	Thunderstorm Winds
Alamance County 5 S Graham	22	1730EST			0	0	0	0	Thunderstorm Winds
Hoke County Arabia	22	1845EST			0	0	?	0	Thunderstorm Winds

Thunderstorm winds blew down trees and power lines in southern Iredell and Rowan counties. Numerous trees and power lines were reported down, and a funnel cloud was sighted in the Charlotte area. In Alamance County near Graham, thunderstorm winds blew six mobile homes off their foundations. Roofs were damaged and trees were blown down in Arabia in Hoke County.

Green County Near Snow Hill	24	0001EST			0	0	0	0	Thunderstorm Winds
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Thunderstorm winds blew down trees and power lines near Snow Hill.

NCZ010-011-012 Western North Carolina	24	1600EST			0	0	?	?	High Wind
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High winds following a strong cold front produced winds up to 60 mph over parts of western North Carolina. Trees and power lines were blown down in Clay, Cherokee, Macon, Jackson, Swain, Haywood, and Madison counties.

NORTH DAKOTA

None reported.

OHIO

Erie County Huron River	02 03	1300EST- 0230EST			0	0	3	0	Flood
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The Huron River at Milan crested at 15.1 feet at 2000 EST on the 2nd. This was one and one-tenth of a foot above flood stage and only minor lowland flooding occurred.

Trumbull County Mahoning River	03	0700EST- 1600EST			0	0	3	0	Flood
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The Mahoning River at Leavittsburg crested at 10.1 feet, which was a tenth of a foot above flood stage. Only minor lowland flooding occurred.

Hamilton County Great Miami River	04 06	1800EST- 0100EST			0	0	3	0	Flood
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At Miamitown, the Great Miami River crested at 18 feet at 1900EST on the 5th. This was 2 feet above flood stage and minor flooding occurred along the river.

Pickaway County Scioto River	04 06	1800EST- 1300EST			0	0	3	0	Flood
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Pike County Scioto River	04 08	2030EST- 0100EST			0	0	3	0	Flood
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STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CRODSS	

OKLAHOMA

OKOPH-OWW-
Panhandle and
Northwest

27 Afternoon-
28 Midday
0 0 ? ? Heavy Snow/
Sleet

Sleet and snow fell over much of the state with the heaviest accumulations in the panhandle and northwest. Freedom reported 4 inches, as did Jefferson, with 3 inches at Alva and Fargo. Roads were snowpacked and icy with many accidents reported.

OKALL

Record Monthly
Precipitation

Every region of Oklahoma reported near record or record monthly precipitation. The higher amounts include 9.11 inches at McCurtain, 8.03 at Boswell, 6.1 in Sapulpa, 4.19 in Weatherford, 4.63 in Oklahoma City, and 3.79 in El Reno.

OREGON

ORZ001, 003
Clatsop and Curry
Counties
Seaside, Gold Beach

03 0200PST-
1400PST
0 0 ? 0 High Wind

A warm storm caused wind to gust to 57 mph at Seaside and 62 mph at Gold Beach.

ORZ013
South Cascades
Douglas, Jackson,
Klamath Counties

03 Day
0 0 0 0 Heavy Snow

The arrival of a cold, low pressure area, that would linger near the state for over two more weeks, caused 6 to 10 inches of snow in the Diamond Lake and Crater Lake areas.

ORZ001
Clatsop County

04 0200PST-
05 0830PST
0 0 ? 0 High Wind

Wind speeds of 45 mph gusting to 58 mph were recorded at Seaside and 55 mph gusting to 60 mph at Cape Disappointment at the mouth of the Columbia River.

ORZ001-005

05
06
0 0 0 0 Heavy Snow

Cold, low pressure offshore began sending cold fronts with snow inland. Ten inches fell at Timberline Lodge, 8 inches at Government Camp. Six to 7 inches fell in the South Cascades. Ten inches fell to the 1,500-foot level of the North Coast Range.

ORZ001, 006
North Coast Range,
North Cascades

06 Day-
07 Night
0 0 0 0 Heavy Snow

The next surge of snow included 12 inches at Sunset Summit and 10 inches at Mt. Bachelor and Crater Lake. One to 2 inches fell on the Willamette Valley floor.

Cascades and
Northeast
Mountains

07 Night-
08 Day
0 0 ? 0 Heavy Snow

Snow moved from the Cascades eastward. Diamond Lake accumulated 14 inches, Timberline 12 inches, Crater Lake another 11 inches, Government Camp and Tollgate 10 inches, Bennett Pass 9 inches and Austin 8 inches.

ORZ001-003
Coast

09 0600PST-
1500PST
0 0 5 0 High Wind

A warm front in between two cold fronts caused high wind and swollen rivers. Neatarts had wind speeds 40 mph gusting to 53 mph while at Astoria wind gusted to 45 mph. The brief warming and associated snow melt along with the frontal rain made for high water on the Coquille River. The force of water tore a 64-foot salmon troller from its dock pulling the dock and four pilings with it. The fishing rigging was torn off the vessel and some other equipment on board was damaged.

OREGON
All Zones

11 Night-
13 Day
0 0 ? 0 Heavy Snow

The next cold front in a long series brought snow from the Pacific coast to the Northeast Mountains. Twenty nine inches of snow fell at Bennett Pass, 14 inches fell in the North Coast Range. The North Cascades received 8 to 11 inches of new snow, 3 to 6 inches fell in the western valley from Portland to Roseburg, and 1 to 2 inches along the south coast beaches as well as the Columbia Basin.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

OREGON

OREGON All Zones 14 Evening-
15 Evening 0 0 7 0 **Heavy Snow**

A storm brought 24 to 35 inches of snow to the Columbia Gorge cities of Cascade Locks and Hood River. Up to 28 inches fell in the North Coast Range, 16 inches at Timberline Lodge. The Willamette Valley was coated with 2 to 4 inches except the higher hills around Portland received up to 1 foot.

OREGON All Zones 16 Day-
Evening 0 0 0 0 **Heavy Snow**

Ten to 15 inches of new snow fell in the North Coast Range and 20 to 35 inches in the North Cascades. The South Cascades reported between 1 and 2 feet additional snow. The Columbia Gorge had up to 6 inches more snow while the Willamette Valley had 2 to 5 inches more. South-central areas did not escape the new snow with 9 inches reported from Chemult, 6 to 8 inches in the Klamath Falls and Lakeview areas. Tipton Summit in the northeast mountains had 6 inches of new snow as did Juantera in the southeast.

PENNSYLVANIA, Eastern

PAZ016 Extreme Northeast Corner of Pennsylvania 04 0600EST 0 0 4 0 **Ice Storm**

Rain and drizzle began around 1700 EST on the 3rd and continued overnight. Temperatures dropped below freezing and significant accumulation of ice developed over the north portion of the Poconos Zone by 0600 EST on the 4th. Tree limbs and utility lines were downed. Some freezing of rain also occurred in most of the north portion of eastern Pennsylvania and the East Central Zone, but significant accumulations of ice did not result outside the north portion of the Poconos Zone.

Clinton County Keating Tamarack 16 1843EST
16 1900EST 0 0 3 0 **Thunderstorm Wind**
0 0 3 0 **Thunderstorm Wind**

Thunderstorm wind gusts downed trees and large limbs in Keating and Tamarack.

Tioga County 2.9SW Osceola Middlebury Center 16 1920EST
16 1925EST 0 0 3 0 **Thunderstorm Wind**
0 0 3 0 **Thunderstorm Wind**

Thunderstorm wind gusts downed trees and large limbs near Osceola and in Middlebury Center.

Centre County 0.8 SW Oak Hall 16 1935EST 3.0 350 0 0 5 0 **Tornado FPP 113**

A tornado touched down just to the southwest of Oak Hall and traveled in a direction just slightly north of east at 40 to 50 mph. The damage path ended just to the east of Linden Hall. Dozens of trees were uprooted or broken off. Several road signs were blown away with one of them severing a 200-pair telephone line as it flew through the air. One garage was damaged by falling trees. A steel fence was blown down. Two outbuildings were damaged and a grain bin was blown down. The wind pressure caused cracks in a cathedral ceiling and cracks in wall plaster in one home. At least one utility pole was down. Climatological tornado records show this to be the only tornado ever reported in Centre County in February and only the second February tornado ever reported in the state of Pennsylvania.

PENNSYLVANIA, Western

Erie County Erie 15 1041EST 0 0 8 0 **Ice Storm**

One-half inch of ice covered exposed surfaces bringing down many trees and power lines in Erie, Springfield, and Conneaut townships. Knocked out five T.V. stations in Erie. Erie International Airport closed for about 4 hours. Ten thousand homes without power. Estimated damage \$100 thousand from trees falling into houses and downed power lines. Worst icestorm since 1978.

Butler County 4 NW Butler 16 NE Butler 15 2245EST 0 0 0 0 **Flash Flood**

Flooding on Connoquenessing Creek in Center township. Poor drainage flooding in Petrolia on Route 268.

Butler County 15 W Butler 15 2305EST 0 0 0 0 **Flash Flood**

Flooding on Little Connoquenessing Creek in Lancaster township.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CARS	

PENNSYLVANIA, Western

Crawford County 14 W Meadville	16	1520EST			0	0	3	0	Thunderstorm Wind Tree and powerlines damaged in Linesville due to thunderstorm wind. There was also damage to houses.
Erie County 20 SE Erie	16	1545EST			0	0	0	0	Thunderstorm Wind Tree and power line damage near Union City.
Beaver County 10 S Beaver	16	1645EST			0	0	0	0	Thunderstorm Wind Sixty mph gust at Hopewell in a thunderstorm.
Venango County 6 W Franklin Franklin	16	1645EST			0	0	0	0	Hail (0.75) Three-quarter-inch-size hail at Polk.
Franklin	16	1650EST			0	0	0	0	Hail (0.75) Three-quarter-inch-size hail at Franklin.
Butler County 17 SW Butler	16	1653EST			0	0	0	0	Hail (0.75) Three-quarter-inch-size hail at Mars.
6 S Butler	16	1714EST			0	0	0	0	Thunderstorm Wind Two trees down near Renfrew in Penn township from thunderstorm wind.
Armstrong County 12 S Kittanning	16	1730EST			0	0	0	0	Hail (0.75) Three-quarter-inch-size hail at Leechburg.
Kittanning	16	1730EST			0	0	5	0	Thunderstorm Wind Roof of beer distributorship taken off by thunderstorm wind; landed on cars in new car dealership destroying several.
Washington County 10 S Washington	16	1800EST			0	0	0	0	Thunderstorm Wind Trees down in Amity.
Westmoreland County 15 N Greensburg	16	1803EST			0	0	0	0	Thunderstorm Wind Tree damage in Perryville in Washington township.
Indiana County Indiana	16	1815EST			0	0	0	0	Thunderstorm Wind Thunderstorm wind 80 mph in Indiana.
Westmoreland County 24 N Greensburg	16	1820EST			0	0	0	0	Thunderstorm Wind Tree damage in West Leechburg.
Indiana County 17 NE Indiana	16	1830EST			0	0	0	0	Thunderstorm Wind Trees down in Hillsdale.
Jefferson County 11 SE Brookville	16	1839EST			0	0	0	0	Thunderstorm Wind Power lines down in Reynoldsville.
PAZ005 Laurel Mountains	19	1136EST			0	0	0	0	High Wind Johnstown winds 62 mph.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			K I L O M E T E R S	I N J U R I E D	P R O P E R T Y	C O S T	

PENNSYLVANIA, Western

Johnstown	19	1233EST			0	0	0	0	High Wind
									Johnstown wind 68 mph.
PAZ005 Johnstown	22	1212EST			0	0	0	0	High Wind
									Johnstown wind 64 mph.
Johnstown	22	1319EST			0	0	0	0	High Wind
									Johnstown wind 61 mph.
Beaver County Beaver	24	1715EST			0	0	0	0	High Wind
									Peak wind at Beaver County Airport 58 mph.
Allegheny County Pittsburgh	24	1735EST			0	0	0	0	High Wind
									Gust to 59 mph at greater Pittsburgh Airport.
Beaver County Beaver	24	1805EST			0	0	0	0	High Wind
									Peak wind 67 mph at Beaver County Airport.
Allegheny County 5 N Pittsburgh	24	1820EST			0	0	0	0	High Wind
									Sixty-eight mph gust in Sewickley Heights.
Allegheny County 3 E Pittsburgh	24	1830EST			0	0	0	0	High Wind
									Wires down in Moon township.
Westmoreland County Greensburg	24	1830EST			0	0	4	0	High Wind
									Signs were blown off stores in Greensburg; power lines were downed throughout county.
PAZ001-002-003- 004-005-006-013- 015	24	1900EST			0	0	0	0	High Wind
									West Penn and Duquesne Power reported power out to 9000 customers due to high wind.
PAZ004 Northern Mountains	25	0700EST			0	0	0	0	Heavy Snows
									Six to 8 inches of snow fell throughout the zone.
PAZ005 Laurel Mountains	25	0700EST			0	0	0	0	Heavy Snow
									Six inches of snow fell across the zone.
PAZ001 Lakeshore	25	0700EST			0	0	0	0	Heavy Snow
									Six inches of snow fell across the zone.
PAZ002 Northwest	25	0700EST			0	0	0	0	Heavy Snow
									Nine to 12 inches of snow fell across the zone with the heaviest amount of 12 inches at Woodcock Dam.
PAZ003 Western	25	0700EST			0	0	0	0	Heavy Snow
									Six to 8 inches of snow fell across the northern half of the zone.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

RHODE ISLAND

Statewide	24	0700-1400EST	0	0	0	0	0	Heavy Snow
	25	0200-1500EST	0	0	0	0	0	Heavy Snow

Falling temperatures changed rain to snow across the state on the morning of the 24th. Snow quit during the afternoon and evening of the 24th then redeveloped early on the 25th. One to 3 inches fell on the 24th with 4 to 8 inches on the 25th. Total two day accumulations averaged 5 to 10 inches with the heaviest along the south coast.

SOUTH CAROLINA

Oconee County Seneca to Pickens County 3 NW Clemson	10	0720EST	3	60	0	1	5	0	Tornado (F1)
	10	0723EST	0.1	60	0	0	0	0	Tornado (F1)
Abbeville County W of Abbeville	10	0730EST			0	0	2	0	Thunderstorm Winds
Pickens County Central	10	0735EST			0	0	4	0	Thunderstorm Winds
Anderson County 4 NE Pendleton	10	0740EST			0	0	5	0	Thunderstorm Winds
Pickens County Easley	10	0755EST	3	100	0	0	5	0	Tornado (F1)
Greenville County Greenville Downtown Airport Eastside	10	0758EST			0	0	4	0	Thunderstorm Winds (G55)
Greenville Greenwood County Greenwood	10	0800EST	3	80	0	0	5	0	Tornado (F0)
	10	0822EST			0	0	?	?	Thunderstorm Winds and Urban Flood
Greenville County 8 N Greer	10	0825EST			0	0	3	0	Thunderstorm Winds
Aiken County Countywide	10	0830EST			0	0	?	?	Thunderstorm Winds
Edgefield County Countywide	10	0830EST			0	0	?	?	Thunderstorm Winds
Spartanburg County 1 S Chesnee to Cherokee County 5 ESE Chesnee	10	0838EST	0.1	50	0	0	2	0	Tornado (F1)
	10	0840EST	4.9	50	0	0	5	0	Thunderstorm Winds
Laurens County Northern Portions	10	0845EST			0	0	?	?	Thunderstorm Winds

A steady-state thunderstorm embedded in a line of thunderstorms produced a great deal of unusual February severe weather across northwestern South Carolina during the morning hours. There were four tornados affecting parts of five different counties and a few reports of damaging winds. Although the tornados struck highly populated areas, they were relatively weak F0 and F1 storms, and because of the hour, people were well protected from flying debris, in their homes. A subdivision and mobile home park at Cherokee Gardens, near Seneca, received around \$120,000 in damages. Several mobile homes were destroyed by falling trees and one was destroyed by the wind. Several homes received heavy damage from falling trees. In central Pickens County, and in extreme northern Anderson County, a fairly large area of downburst caused extensive damage to mobile homes and some permanent structures. One home under construction collapsed. Perhaps the strongest tornado of this episode struck Easley, where 86 dwellings and many businesses were damaged. Some homes and mobile homes were nearly destroyed. The high school's football field received heavy damage to the press box and two concrete walls were blown down. Total damage in Easley was estimated at well over \$300,000. A weak tornado struck the Haywood Mall area of Greenville. It blew the facing off a storefront, blew down light poles, broke some glass, and damaged some signs. There would have been great potential for injury there if the storm had struck a couple of hours later. The tornado skipped several times and then struck the Pelham Road area quite heavily. It caused a great deal of damage to homes and apartments. Most of the damage was relatively minor, except where trees fell onto buildings. There was some noteworthy roof damage to some homes. The final tornado touched down in Spartanburg County, near the border with Cherokee County, near Chesnee. This storm moved quickly into Cherokee County, where it damaged several homes, and one mobile home was picked up. Miraculously, the couple inside was uninjured. Virtually all of the damage occurred in Cherokee County, where early estimates of damage are near \$80,000. In Greenwood County, there was some flooding near Piedmont Plaza

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

SOUTH CAROLINA

on the SC Hwy. 72 Bypass, in the town of Greenwood. There were 15 to 20 homes damaged in the Northwoods Road area, also near the town of Greenwood, and downed power lines started a brief fire in a tree. Flooding was also reported in Greenwood County near Rock Creek and the Chinquapin area. In Aiken and Edgefield counties, damage was mainly to trees and power lines, due to a different storm. An automobile was crushed in Aiken County when a tree fell on it. Total damage from this episode was estimated at about \$1 million.

Spartanburg County Spartanburg	16	1000EST			0	0	?	0	Urban Flood
Greenville County 2 W Marietta	16	1330EST			0	0	?	0	Flash Flood
Pickens County 3 W Marietta	16	1330EST			0	0	?	0	Flash Flood

Thunderstorms repeating over the same areas produced total rainfall of 3 to 5 inches in about a 12-hour period over the mountains with lesser amounts in the foothills. The Middle Saluda River was 2 feet out of its banks forcing several residents to leave their homes for some time. Other small streams in the area also flooded.

Lexington County & Richland County Irmo Northern Portions	16	1345EST			0	0	3	0	Funnel Cloud
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Kershaw County 5 NE Camden	16	1424EST	1/16	10	0	0	3	0	Tornado (F0)
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The funnel cloud that developed over Irmo, in Lexington County traveled eastward over extreme northern Richland County, and touched down, briefly uprooted some trees, and damaged the rafters of a house 5 five miles northeast of Camden before dissipating. Four residents reported the tornado to authorities.

Marlboro County McColl	16	PM			0	0	4	0	Thunderstorm Winds
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Thunderstorm winds blew down the side wall of a 90-year-old structure.

Beaufort County Beaufort	18	PM			0	0	4	0	Lightning
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Lightning struck a transformer near the Comfort Inn, on U.S. Hwy 21 and disrupted power service.

Greenwood County Troy to Callison	22	1345EST			0	0	3	0	Thunderstorm Winds
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Laurens County Waterloo	22	1409EST			0	0	3	0	Thunderstorm Winds
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York County Countywide	22	1545EST			0	0	4	0	Thunderstorm Winds and Lightning
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A severe thunderstorm produced some wind damage along a line from Troy to Callison in southern Greenwood County. The first damage was reported about 1340 EST near Troy and the last in the county near 1350 EST near Callison. A few trees were uprooted, power lines were blown down, and some outbuildings' roofs were removed. A similar storm at Waterloo blew down some trees, power lines, and damaged the roof of a home. In York County, wind knocked a pine tree into a home in the Heathwood subdivision of Rock Hill. In Catawba, also in York County, a tree fell across a truck. Throughout the county, lightning disrupted power for nearly an hour.

Aiken County North Augusta	22	PM			0	0	4	0	High Winds
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High winds caused a pine tree to fall onto a house causing approximately \$10,000 in damage.

SOUTH DAKOTA

SD2006-007-008- 009-013 Southwest South Dakota	13 14	0100CST- 2200CST			0	0	0	0	Snow
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Snow began falling in the Black Hills and parts of the adjacent plains during the early morning hours of the 13th and ended the evening of the 14th. The following are some of the heavier snowfall amounts in inches:

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CRODUS	

SOUTH DAKOTA

Sturgis and Deadwood
Custer
Hot Springs, Martin, and Belle Fourche
Rapid City
Plains adjacent to the Black Hills

9
5
3
2
1 to 2

SDZ-003-004-005-
006-007-008-009-
010-011-012-013-
014-015-016-017-
018-019-020
All except
Northwest
South Dakota

15 0400CST-
16 0600CST

0 0 0 0

Heavy Snow

Heavy snow developed across southwest South Dakota early on the 15th and moved slowly across the state before ending in the east early on the 16th. A narrow band of 10- to 12-inch accumulations fell in the central portion from around Pierre to near Huron. Lesser amounts of 3 to 6 inches fell to the north and south of the heavy band. Some of the heavier snowfall reports in inches:

Huron 12
Pierre 10
Aberdeen, Sioux Falls, and
Pickstown 6
Rapid City and Mobridge 3
Watertown 2

TENNESSEE

Giles County 03 0845CST 0 0 2 0 Thunderstorm Wind

Powerful thunderstorm wind knocked down a few trees and tore some shingles off a house near Pulaski.

TNZ006-007-008-009-
010-011-012-013-014-
015
West and Middle
Tennessee

03 1200CST 0 0 5 0 Flood

A slow moving system moved northeast from Texas across Tennessee over the weekend and produced from 4 to 8 inches of rain over west and middle Tennessee, causing widespread flooding. Small stream and lowland flooding began early in the morning, around 0430 CST on the 3rd, in western Tennessee, and the rain and resulting flooding spread eastward. Flooding continued in many locations on the 4th. There was widespread lowland and street flooding with most small streams out of their banks resulting in a number of small rivers flooding as well, including the Duck, Elk, and Buffalo rivers, while the Hatchie River was already above flood stage. Most of the damage was to roads being washed out in western Tennessee. Five families were evacuated in Lascassas and a motel lobby was flooded in Murfreesboro, both in Rutherford County. A bridge was washed out on State Route 12 near Clarksville in Montgomery County around 1800 CST Saturday. Flood water got into a number of businesses in Franklin, Williamson County around 2100 CST Saturday night. There were a number of private bridges washed out by flood water in middle Tennessee and the plateau region. In McNairy County near Selmer, a woman's car was swept off the road by high water and she had to be rescued.

Lauderdale County
Ashport 09 1534CST-
1537CST 2.0 40 0 0 4 0 Tornado (F1)

A tornado touched down on the north side of Ashport and traveled east-northeast along Highway 19 to about 2 miles northeast of Ashport. It knocked down trees and power lines and damaged roofs of a number of houses along its path.

Crockett County
Dyer County 09 1620CST 0 0 1 0 Thunderstorm Wind
09 1625CST 0 0 1 0 Thunderstorm Wind

A severe thunderstorm moved through these two counties producing damaging wind that knocked down several trees in the northwest part of Crockett County and the southeast part of Dyer County.

Franklin County
Estill Springs
to 3 NE Estill
Springs 09 2213CST
2126CST 2.5 45 0 0 4 0 Tornado (F1)

Around 2213 CST a tornado touched down in the northeast part of Estill Springs and moved east-northeast for about two and a half miles before lifting up. It tore up a press box at a little league ball field, blew the tin roof off of one dwelling and damaged roofs and awnings of several others.

Franklin County
1.5 NW of Alto
to 2 NE of Alto 09 2225CST-
2228CST 2.2 50 0 0 3 0 Tornado (F1)

At around 2225 CST, another tornado touched down briefly north of Alto and moved east-northeast. It knocked over a grain bin and shoved a mobile home off its foundation.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

TENNESSEE

Polk County 10 0245CST 0 0 1 0 Thunderstorm Wind

Several trees were knocked down in the southern part of the county near Ducktown.

Lauderdale County 14 2200CST 0 0 2 0 Minor Flooding

Moderate to occasionally heavy rain fell on saturated ground causing low-lying areas to become flooded in the Gates area.

Obion County 15 1506CST 0 0 0 0 Funnel Cloud
15 1520CST 0 0 2 0 Thunderstorm Wind

At 1506 CST, a funnel cloud was sighted by the public just west of Troy. At 1520 CST, thunderstorm wind knocked down a few trees in Union City.

Sevier County 15 2200CST 0 0 0 0 Minor Flooding
Blount County 15 2200CST 0 0 0 0 Minor Flooding
Hamblen County 16 0200CST 0 0 0 0 Minor Flooding
Polk County 16 0245CST 0 0 6 0 Flood
Hamilton County 16 0245CST 0 0 4 0 Flood
Cocke County 16 1200CST 0 0 3 0 Flood

A slow moving cold front caused widespread rain across Tennessee with especially large amounts over southeast Tennessee and northwest Georgia. In many parts of east Tennessee, creeks and streams were full or overflowing with low-lying areas flooded and many roads covered with water. In Polk County, the flooding included the Ocoee River which caused substantial damage to many houses and businesses and forced the evacuation of numerous people in Copperhill. Damage estimates in Copperhill were around \$1 million. In Hamilton County, the relatively minor flooding on Friday the 16th, lead to major flooding Saturday morning the 17th, as the South Chickamauga Creek continued to rise. It forced the evacuation of over 250 families in the cities of East Ridge, Brainerd, and part of Chattanooga. Dozens of businesses and homes were flooded.

Shelby County 22 1950CST 0 0 0 0 Hail (1.75)
Gibson County 22 2045CST 0 0 4 0 Lightning

A weak storm system moved through west Tennessee and produced showers and a few thunderstorms. One thunderstorm dumped large hail in the east part of Memphis. In the Trenton area of Gibson County, lightning killed eight cows and two bulls that were standing in a group in a pasture. Their estimated cost was \$8,000.

Hamilton County 24 1215CST 0 1 2 0 Wind
Rhea County 24 1215CST 2 0 2 0 Wind

Strong winds that gusted to near 50 mph at times caused widespread power and telephone outages, due mainly to trees being blown over onto lines. In Hixson, Hamilton County, a woman was injured when strong wind blew a tree onto her mobile home. In Rhea County on Watts Bar Lake, two men drowned when strong wind capsized their boat at around 1000 EST. M280 M260.

TEXAS, Northern

McLennan County 01 0500CST 0 0 ? ? Thunderstorm Wind
McGregor

At McGregor, a downburst destroyed a barn and an outdoor shed while damaging one mobile home and a brick wall of a business. A downburst also blew off the roof of a barn and collapsed a garage onto an automobile.

Johnson County 01 0500CST- 0 0 ? ? Flash Flooding
Alvarado 0900CST
Cleburne 01 0500CST- 0 0 ? ? Flash Flooding
0900CST

Heavy rainfall resulted in high water up to 18 inches over several roadways in both Alvarado and Cleburne.

Tarrant County 01 0630CST- 0 0 ? ? Flash Flooding
Fort Worth 1000CST

Richland Hills 01 0630CST- 0 0 ? ? Flash Flooding
1000CST

Grapevine 01 0630CST- 0 0 ? ? Flash Flooding
1000CST

Heavy rainfall resulted in high water up to 12 inches in the "mix master" portion of downtown Fort Worth. High water was observed up to the foundation of several homes in Richland Hills while two motorists were stranded in high water in Grapevine at State Highway 114.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

TEXAS, Northern

Dallas County	01	0645CST-1030CST			0	0	?	?	Flash Flooding
Dallas	01	0645CST-1030CST			0	0	?	?	Flash Flooding
Irving	01	0705CST-1030CST			0	0	?	?	Flash Flooding
Grand Prairie	01	0705CST-1030CST			0	0	?	?	Flash Flooding

In Dallas, high water trapped several motorists in their cars while some flooding was observed along Johnson and Cottonwood creeks. Loop 12 in Irving was closed due to high water. Up to 3 inches of rain in Grand Prairie, forced the closing of an elementary school while high water was reported up to the porches of some homes.

Ellis County	01	0700CST-1030CST			0	0	?	?	Flash Flooding
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Over 2 inches of rain resulted in high water over numerous city and county roads near Waxahachie.

Fannin County	01	0750CST-1130CST			0	0	?	?	Flash Flooding
Trenton	01	0750CST-1130CST			0	0	?	?	Flash Flooding
Bonham	01	0750CST-1130CST			0	0	?	?	Flash Flooding

Indian Creek in Trenton washed out a bridge and dislodged a pickup truck crossing the bridge. High water was also reported on Business Highway 69 in Trenton. Several creeks and streams resulted in high water over several roadways near Bonham.

Collin County	01	0755CST-1130CST			0	0	?	?	Flash Flooding
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Rainfall amounts of 4 inches measured in McKinney resulted in numerous roads along low-lying areas of Collin County to be barricaded and closed due to high water. High water was reported along the southern portion of U.S. Highway 380 and east of U.S. Highway 75 near Lake Lavon.

Denton County	01	0900CST-1100CST			0	0	?	?	Flash Flooding
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Several low-lying areas were flooded in Denton County.

Navarro County	01	1612CST			0	0	?	?	Thunderstorm Wind (G50)
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Hamilton County	01	1616CST			0	0	?	?	Hail (0.75)
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McLennan County	01	1714CST			0	4	?	?	Thunderstorm Wind
Waco	01	1719CST			0	0	?	?	Thunderstorm Wind (G70)
12 S Waco	01	1723CST-1725CST	Short Narrows		0	0	?	?	Tornado (F1)
Waco	01	1729CST			0	0	?	?	Thunderstorm Wind (G52)
Lorena	01	1730CST			0	0	?	?	Thunderstorm Wind
Waco	01	1739CST			0	0	5	?	Thunderstorm Wind
3 N Waco	01	1739CST			0	0	?	?	Hail (1.25)

A downburst at 1714 CST, blew down a tin building, several power lines, and a gasoline station sign onto a truck in Waco. In addition, a tractor-semitrailer was blown over while two cars had windows blown out. Several shingles were also blown off roofs of homes while strong winds turned around a television microwave dish and several jet airplanes at the Waco Regional Airport. At 1723 CST, a weak tornado damaged a car and a canopy of buildings. In Lorena, trees up to one and one-half feet in diameter were blown down while a few homes sustained roof damage. In the eastern part of Waco at 1739 CST, a downburst blew down several trees onto power lines. Baylor University had fences, a scoreboard, and the roof of a pressbox and building damaged while eight light poles at the football stadium were blown down. A hotel also had \$250,000 worth of roof damage while 20 windows were blown out of an apartment complex.

Bosque County	01	1715CST			0	0	?	?	Hail (0.75)
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Bell County	01	1717CST			0	0	?	?	Hail (0.75)
Troy	01	1730CST			0	0	5	?	Thunderstorm Wind

At Troy, a \$70,000 scoreboard was destroyed at a high school while power lines were blown down.

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FEBRUARY 1990

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		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

TEXAS, Northern

Hill County Whitney	01	1730CST			0	0	?	?	Hail (1.75)
Trinity County Trinity	01	1950CST			0	0	?	?	Thunderstorm Wind

A downburst destroyed a mobile home in Trinity.

Angelina County Lufkin	01	2100CST			0	0	?	?	Thunderstorm Wind
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Strong winds blew large tree limbs onto power lines in Lufkin.

Harrison County 10 NE Marshall	02	1920CST			0	0	?	?	Hail (0.88)
Marion County 3 E Jefferson	02	1930CST			0	0	?	?	Hail (0.88)
Hill County Peoria	09	1130CST			0	0	?	?	Hail (1.00)
Hamilton County Hamilton	09	1225CST			0	0	?	?	Hail (0.75)
Johnson County Grandview	09	1313CST			0	0	?	?	Hail (0.75)
Ellis County Ferris	09	1325CST			0	0	?	?	Hail (1.00)
Waxahachie	09	1342CST			0	0	?	?	Hail (0.75)
Bowie County Maud	09	1330CST			0	0	?	?	Thunderstorm Wind and Hail (1.00)
Wake Village	09	1335CST			0	0	?	?	Thunderstorm Wind and Hail (0.88)

A downburst blew down numerous trees at Maud and Wake Village.

Cass County Douglasville	09	1347CST			0	0	?	?	Hail (0.88)
Kaufman County Crandall	09	1350CST			0	0	?	?	Hail (0.75)
Gregg County Longview	09	1450CST			0	0	?	?	Hail (0.75)
4 E Longview	09	1450CST			0	0	?	?	Hail (1.00)
Harrison County Hallsville	09	1505CST			0	0	?	?	Thunderstorm Wind and Hail (1.00)

Strong wind blew down large tree limbs at Hallsville.

Anderson County 2 S Palestine	09	1605CST			0	0	?	?	Hail (0.75)
Meches	09	1605CST			0	0	?	?	Hail (1.75)
Elkhart	09	1615CST			0	0	?	?	Thunderstorm Wind
12 E Elkhart	09	1630CST			0	0	?	?	Thunderstorm Wind

At Elkhart, a downburst blew down several trees and power lines. At Denson Springs (12 E Elkhart) a downburst blew power lines down, the roof off several barns, the shingles off several homes, the chimney off one home, while a tree fell and damaged an additional home.

Cherokee County Rusk	09	1625CST			0	0	?	?	Hail (0.75)
Rusk County Concord	09	1655CST			0	0	?	?	Hail (1.75)
Reklaw	09	1750CST			0	0	?	?	Thunderstorm Wind Hail (0.88)

In Reklaw, several trees and power lines were blown down.

Wacogdoches County Nat to Appleby to Garrison	09	1716CST-1735CST	25	100	0	1	?	?	Tornado (F2)
Appleby	09	1720CST			0	0	?	?	Hail (1.00)

A tornado touched down at Nat and tracked through Appleby and Garrison. Numerous trees and power lines were blown down with several homes damaged. Specifically in Appleby, the roof of a house and a mobile home were blown off while two other mobile homes were heavily damaged. Several chicken houses were also demolished while a tree fell and damaged a carport.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

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		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

TEXAS, Northern

Harrison County 2 SW Waskom	09	1725CST			0	0	?	?	Hail (1.75) and Lightning
2 N Hallsville	09	2140CST			0	0	?	?	Hail (1.00)

Lightning set two oil storage tanks on fire 2 miles southwest of Waskom.

Panola County 4 E Gary	09	1740CST			0	0	?	?	Thunderstorm Wind Hail (1.00)
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Strong winds blew down numerous trees and power lines at Lake Marval (4 E Gary).

Shelby County Center	09	1745CST			0	0	?	?	Thunderstorm Wind
Paxton	09	1745CST			0	0	?	?	Hail (1.75)
James	09	1745CST			0	0	?	?	Thunderstorm Wind

In Center, a downburst blew down several utility poles and trees, the roof off a utility shed, and a police car off a roadway. Five homes were also damaged by falling trees. In James, a downburst resulted in major damage to five homes.

Angelina County Lufkin	15	0214CST			0	0	?	?	Thunderstorm Wind (G52)
Shelby County 10 NE Center	15	1407CST			0	0	?	?	Hail (1.75)
Henderson County Athens	15	2023CST			0	0	?	?	Hail (1.75)
5 S Chandler	15	2035CST			0	0	?	?	Hail (0.75)

Dime-size hail was observed at Lake Palestine (5 S Chandler).

Smith County 4 W Noonday	15	2045CST			0	0	?	?	Hail (1.75)
Tyler	15	2100CST			0	0	?	?	Hail (0.75)
Gregg County Kilgore	15	2130CST			0	0	?	?	Hail (0.88)
Harrison County 2 N Hallsville	15	2140CST			0	0	?	?	Hail (1.00)
Cherokee County 3 W Jacksonville	15	2310CST			0	0	?	?	Hail (0.75)

TEXAS, Southern

Burnet County	01	0445CST			0	0	?	?	Thunderstorm Wind (?)
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High winds from a thunderstorm tore the roof off the pressbox at the local football stadium in Marble Falls. The high winds also destroyed a camper and damaged a trailer.

Burnet County	01	0500CST			0	0	?	?	Thunderstorm Wind (?)
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In the northeast part of the county near Mohomet and Briggs, high winds from a thunderstorm uprooted trees and tore the roofs off outbuildings. One home was damaged from a falling tree.

Milam County	01	0700CST			0	0	?	?	Thunderstorm Wind (?)
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Winds downed trees in and around Cameron. A roof was blown off a residence.

LaSalle County	01	1515CST			0	2	9	0	Thunderstorm Wind (G85+)
	01	1515CST			0	0	?	?	Hail (1.00)

A severe thunderstorm downburst hit the northwest side of the town of Cotulla. The damage path was about one-quarter of a mile long. One mobile home was completely destroyed and two others heavily damaged. Four commercial buildings suffered major roof damage. Approximately 100 homes suffered some kind of roof damage. Several outbuildings were overturned. Numerous signs, trees, and power lines were downed. One lady received a broken jaw and one man was slightly injured at the airport. A DPS official who surveyed the damage stated it was straight-line winds. Several witnesses reported they did not see a tornado. The automatic wind sensor at the airport (RAMOS) registered a gust to 85 knots (97 mph) before the power failed. Hail the size of quarters also fell.

Bexar County	01	1610CST			0	0	?	?	Hail (1.50)
	01	1610CST			0	0	?	?	Thunderstorm Wind (?)

Hail the size of ping pong balls fell on the southwest side of the city of San Antonio. High winds blew over trees, signs, and power lines mainly on the south side of the city. At least one garage was unroofed.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

TEXAS, Southern

Travis County	01	1615CST			0	0	?	?	Thunderstorm Wind (G61)
									High winds did roof damage to homes and businesses at scattered points throughout the city of Austin. Falling trees downed power lines.
Live Oak 5 NE Whitsett	01	1625CST			0	0	?	?	Hail (1.75)
Hays County	01	1630CST			0	0	?	?	Hail (1.50)
	01	1630CST			0	0	?	?	Thunderstorm Wind (?)
									Large hail fell in the northern part of the county. High winds from the same thunderstorm tore the roofs off two homes and damaged trees.
Milam County Rockdale	01	1730CST			0	0	?	?	Thunderstorm Wind (?)
									High winds blew the canopy off a business building. Damage was also done to awnings, signs, and outbuildings. Streets were littered with downed limbs and trees.
Lee County	01	1730CST			0	0	?	?	Thunderstorm Wind (?)
									High winds downed trees and caused scattered roof damage in and around the town of Giddings. A few roads were blocked due to fallen trees, power lines, limbs and signs. At least one business lost its front plate glass window. Just southwest of Giddings, telephone poles were twisted in the Northrup and Serbin area.
Robertson County	01	1745CST			0	0	?	?	Thunderstorm Wind (?)
									High winds uprooted trees and caused considerable wind damage to roofs of homes and businesses in and around the town of Hearne. Several hangars were damaged and one completely destroyed at the Hearne Airport. One airplane was flipped over. In the outlying areas, barns and outbuildings were damaged. A new grain elevator bin was destroyed at nearby Valley Junction.
Washington County	01	1800CST			0	0	?	?	Thunderstorm Wind(?)
									In the Gay Hill community, high winds damaged at least six buildings.
Brazos County	01	1812CST			0	0	?	?	Thunderstorm Wind (?)
									In the Bryan College Station area, high winds uprooted trees and power lines were downed. Several buildings had roof damage. Part of an auditorium roof collapsed on the campus of Texas A & M.
Williamson County Bartlett	01	Evening			0	0	?	?	Thunderstorm (?)
									High winds blew over grain storage bins.
Milam County	01	Evening			0	0	?	?	Thunderstorm Wind (?)
									High winds blew over large oak trees in Cameron.
Harris County Humble	01	1945CST			0	0	?	?	Thunderstorm Wind (?)
									High winds hit a trailer park and damaged several mobile homes. One lost its roof and several were blown off their foundations
Trinity County Trinity	01	1950CST			0	0	?	?	Thunderstorm Wind (?)
									High winds blew the roof off of a trailer and caused tree damage.
Harris County Baytown	01	2005CST			0	0	?	?	Thunderstorm Wind (?)
									High winds damaged a trailer park.
Harris County Huffman	01	2005CST			0	0	?	?	Thunderstorm Wind (?)
									High winds downed trees and power lines.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

TEXAS, Southern

Montgomery County	01	2025CST			0	0	?	?	Thunderstorm Wind (?) High winds caused extensive damage to trees and power lines in and around Magnolia near the communities of Splendora and Hazy Hollow. Cars and homes were damaged from falling trees.
San Jacinto County Coldspring	01	2030CST			0	0	?	?	Thunderstorm Wind (?) High winds caused extensive tree and power line damage.
Bexar County	08	1735CST			0	0	?	?	Hail (1.75) Golf ball-size hail fell on the northwest side of the city of San Antonio.
Grimes County Courtney	09	1915CST			0	0	?	?	Hail (1.50)
Colorado County Altair	09	1935CST			0	0	?	?	Hail (0.75)
Harris County	09	2015CST			0	0	?	?	Thunderstorm Wind (?) High winds blew off patio covers and the roofs of mobile homes in the Jersey Village area of Houston.
Liberty County Rye	09	2055CST			0	0	?	?	Hail (0.75)
Hidalgo County Pharr	21	Early			0	0	?	?	Thunderstorm Wind (?) High winds peeled the roofing material off a shed.
Jim Wells County Alice	21	0723CST			0	0	?	?	Thunderstorm Wind (G52) High winds gusted to 60 mph at the Alice Flight Station at the airport. Downed trees damaged at least one auto.
Nueces County	21	0800CST			0	0	?	?	Thunderstorm Wind (G50) High winds gusted to 58 mph at the NWS Office at the International Airport on the northwest side of the city of Corpus Christi. At least one palm tree in the city was toppled.
San Patricio County Sinton	21	0815CST			0	0	?	?	Thunderstorm Wind (?) High winds downed large trees in Sinton which took out power lines.
Jasper County Call	21	1415CST			0	0	?	?	Thunderstorm Wind (?) High winds blew the roof off a large metal building.
Nueces County Corpus Christi	22	0315CST			0	0	?	?	High Wind (G52) A gradient wind gusted to 59 mph at the Corpus Christi International Airport.

TEXAS, Western

Texas South Plains	15	Afternoon			0	0	3	0	High Wind (G53) Strong westerly gradient winds gusted across the South Plains the afternoon of the 15th. Sustained winds near 40 mph with gusts from 55 to 60 mph occurred between 1350 and 1651 CST. One peak gust was measured to be 61 mph (53 knots) at Lubbock International Airport at 1418 CST. A number of residential fences were blown down inside the city of Lubbock.
Northwest Half of Texas Panhandle	20	Early AM- Afternoon			0	0	4	0	Heavy Snow An intense winter storm spun out of the southern Rockies and across the Texas Panhandle on the 20th leaving from 6 to 10 inches of snow across the northwest half of the Panhandle. Various reports included 6 inches at Stratford, 7 inches at Dalhart, 9 inches at Booker, and 10 inches at Spearman.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

TEXAS, Western

The sudden heavy snow snarled traffic most of the day and forced closure of many schools throughout the region. Several minor traffic accidents occurred due to the slick road conditions.

Presidio County
15 NW of Marfa

27 1420CST 0.5 20 0 0 0 0 **Tornado (F0)**

A small rope-shaped tornado was observed by spotters in the desert 15 miles northwest of Marfa in northern Presidio County. The tornado lasted only a few minutes. No damage or injuries were reported.

Jeff Davis County
Valentine area

27 1440CST **Funnels**

Several small funnel clouds were observed in the Valentine area.

Reeves County
Balmorhea

27 1758CST-1815CST 0 0 0 0 **Hail (1.75)**

A thunderstorm produced golf ball-size hail (1.75) in Balmorhea in southern Reeves County at 1758 CST as reported by the Reeves County Sheriff's Office. A deputy from the same office reported golf ball-size hail again at 1815 CST.

UTAH

UTZ001>004-006-007
010-011 All Utah
except parts of the
Southeast and the
extreme Southwest

06 2230MST-08 0600MST 0 0 0 0 **Heavy Snow**

A slow moving cold front deposited from 4 to 12 inches of snow in northern and western valleys of Utah and from 12 to 31 inches in the mountains.

UTZALL
All of Utah

12 1100MST-14 1500MST 0 0 0 0 **Heavy Snow**

A cold front moved very slowly across Utah during a two-day period with most snow in any given location falling within a 24-hour time frame. Storm totals ranged from 4 to 22 inches over most of the state. Some lower valleys in the southeast and the extreme southwest received less than 4 inches.

UTZ001-003>011
All of Utah except
Northwest Deserts.

17 0500MST-19 2300MST 0 0 0 0 **Heavy Snow**

An intense but slow-moving Pacific storm system worked its way across Utah over a two-day span. Except in the northwest, valley amounts ranged from 4 to 12 inches with up to 42 inches in the mountains.

Davis County

19 0200MST-1400MST 0 0 0 0 **High Winds**

Surface high pressure over Wyoming and easterly flow aloft combined to produce strong winds at the mouths of east-west oriented canyons from Salt Lake City north to Logan. The strongest winds were in the Davis County area where gusts in excess of 60 mph occurred.

VERMONT

Statewide

02 AM 0 8 5 0 **Rain/Snow Storm**

A storm system moved across Vermont during the morning. The storm started out as rain and changed over to snow about noon. By the end of the storm, about 3 to 4 inches of snow had accumulated. Many car accidents were blamed on local weather conditions. The bulk of the accidents happened during the changeover from rain to snow.

Windham County
Rockingham

04 PM 0 7 5 0 **Snow**

Eight inches of new snow created hazardous driving conditions.

Statewide

11 AM 0 2 5 0 **Snow**

An unexpected winter storm covered Vermont with over 10 inches of snow. The storm began before rush hour and continued into the evening rush hour.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

VERMONT

Orleans County
Newport

19 AM 0 6 5 0 Blowing Snow

Wind-blown snow created near zero visibility which resulted in a five car accident.

VIRGINIA

2 W Norfolk

09 1330EST 0 0 3 0 Thunderstorm Winds

At Norfolk International Terminal a docked ship and its cargo were slightly damaged when the ship broke loose during a thunderstorm with strong winds.

Chesapeake

09 1345EST 0.2 25 0 0 4 0 Tornado (F0)

In the Bowers Hill area, several residents reported a funnel cloud at treetop level with a rapidly spinning base. Two sheds were tossed 200 feet and destroyed. A few trees were snapped off at 7 feet above ground. An outdoor swimming pool valued at \$5,000 was picked up and destroyed. There was some roof damage to homes and other buildings.

Chesapeake

09 1350EST 0 0 3 0 Thunderstorm Winds

In the Hickory area, a barn was unroofed during a thunderstorm, also some minor damage was noted to other roofs and outbuildings.

Smyth County
2 NW Saltville

16 1300EST-1900EST 0 0 4 0 Flooding

Recent heavy rains caused flooding on the Robertson Branch at Allison Gap, closing the Allison Gap road for about 6 hours. Damage to homes and businesses along the road was reported. Some minor flooding was also noted along Route 91 and on West Main Street in Saltville.

Albemarle County
City of Charlottesville

24 1330EST-1600EST 0 0 5 0 High Winds

A cold front brought high winds to Albemarle County and the city of Charlottesville, which caused power outages to several hundred homes. Winds at the Charlottesville-Albemarle County Airport (CHO) reached 45 mph.

VA2001-002
Southeastern

26 0000EST-0800EST 0 0 0 5 Freezing Temperatures

A very cold air mass brought temperatures of 19° at Norfolk, with probably lower temperatures inland. Major freeze damage occurred to fruit trees and plants whose vegetation was well advanced as a result of abnormally warm weather in January and February. Strawberries and blueberries were about 10 percent destroyed, and the peach crops around Hampton Roads were wiped out.

WASHINGTON

Kitsap County

01 Early Morning 0 0 0 0 Heavy Snow

Moist air overrunning cold air trapped in the Hood Canal Basin caused snow to fall over the south and west portions of Kitsap County. Up to 8 inches of snow accumulated in the Seabeck and Camp Union areas as well as near the Bangor Submarine Base. Accumulations of 4 inches were reported around Silverdale. Traffic problems forced temporary closure of a freeway interchange near Silverdale. Local school districts opened late or remained closed for the day. No other significant damage was reported.

WA2002
NW Interior

02 2100PST 0 0 4 0 High Wind

A strong cold front moving across western Washington caused strong southeast winds in Whatcom, Skagit, Island, Clallam, and north Snohomish counties. Tatoosh Island on the north Washington coast had 53 mph winds with gusts to 68 mph. Wind gusts to 61 mph were also recorded at the Whidbey Island Naval Air Station and the Bellingham airport. Falling trees knocked out power to all of Whidbey Island and about 36,000 customers in Whatcom, Skagit and north Snohomish counties. Falling trees and mudslides along the north coast caused some road closures between Sekiu and Forks, but no other major damage was reported.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CRODSS	

WASHINGTON

WAZ00W
Western Washington

16 Evening 0 0 0 0 Heavy Snow

A weak low pressure area formed along the Washington coast during the day setting up a classic western Washington snow pattern. Moisture rotating around the south side of the low moved over cold air flowing out of the Fraser River Valley into the Puget Sound region. Most of the interior of western Washington received at least 6 inches of snow with the Seattle area receiving up to 10 inches. Aside from traffic problems through the evening, the storm occurred on a Friday night at the beginning of a holiday weekend so that schools and other routine activities were not affected by the snowstorm.

WEST VIRGINIA
WV Zone 1

24 1930EST 0 0 0 0 High Wind

Non-convective sustained wind of 40 mph and greater occurred across the Northern Panhandle.

WISCONSIN

WIZ016-017-018-019-020
Southern Wisconsin

14 Evening into
15 Early afternoon 0 0 ? ? Heavy Snow

A snowstorm dumped up to 8 inches of snow along with some freezing drizzle across southern Wisconsin. Businesses and schools were closed and numerous accidents were reported. Some snowfall amounts included 8 inches in both Kenosha (Kenosha County) and Newburg (Washington County), 7.5 inches in Wind Point (Racine County), and 7 inches in Juneau (Dodge County).

WIZ001-002-003-004-005-006-010
Northern and West-Central Wisconsin

15 Evening into
16 Early afternoon 0 0 ? ? Heavy Snow

A major snowstorm deposited up to 16 inches of snow over northern and west-central Wisconsin. Businesses closed and numerous accidents occurred. Schools and area high school basketball games were canceled. Snow totals included 16 inches at Ashland (Ashland County), 15 inches in Hurley (Iron County), 12 inches in Poplar (Douglas County), and 11.1 inches in Bayfield (Bayfield County).

WYOMING

WYZ002-005-00E-00S-
Northwest Chinook
Northern Front
Range, Southeastern
Wyoming, Southern
Wyoming

07 2100MST-
08 1800MST 0 0 2 0 High Wind

From the late evening of the 7th through most of the 8th, strong winds blew across a large portion of the Cowboy State. Cody logged sustained winds of 40 mph with gusts as high as 64 mph. Sheridan had sustained 40 to 45 mph winds with gusts up to 55 mph. Several weather observers between Cheyenne and Douglas reported 50 to 60 mph sustained winds with peak gusts as high as 93 mph. Rawlins logged peak winds up to 69 mph during the wind storm. Finally, Vedauwoo, 30 miles west of Cheyenne, had a peak wind gust of 83 mph. Only minor damage was reported.

WYZ002-00E-00S-
Northwest
Chinook,
Southeastern
Wyoming,
Southern
Wyoming

09 0300MST-
2300MST 0 0 0 0 High Wind

On the 9th, high winds occurred across much of Wyoming. Vedauwoo, 30 miles west of Cheyenne, had sustained 40 to 50 mph winds with peak gusts up to 65 mph. Between Cheyenne and Douglas, winds were sustained between 45 and 55 mph with peak gusts of 67 mph. During the wind event, Rawlins logged a peak gust of 58 mph. Cody reported 40 to 50 mph sustained winds with peak gusts up to 73 mph.

WYZ001
Northwest
Mountains

09 1800MST-
10 0600MST 0 0 0 0 Heavy Snow

During the overnight of the 9th and 10th, heavy snow occurred in the mountains of northwest Wyoming. Many locations inside of Yellowstone National Park logged over 8 inches of new snow. The largest amount of snow reported was 15 inches, at the south entrance of the park.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

WYOMING

WY2002-05E
Northwest Mountains, Southeastern Wyoming

10 0300MST-
11 0600MST 0 0 0 0 High Wind

From the early morning of the 10th through the early morning of the 11th, high winds occurred over parts of Wyoming. Cody had a peak gust to 73 mph. Vedaauwo, 30 miles west of Cheyenne, reported 50 mph sustained winds with peak winds up to 70 mph. Several locations between Cheyenne and Douglas reported numerous gusts from 60 to 70 mph.

WY2001-004-00E-00S
Northwest Mountains, Big Horn Mountains, Eastern Wyoming, Southern Wyoming

12 1800MST-
14 0600MST 0 0 0 0 Heavy Snow

A prolonged snow event occurred across most of Wyoming from the early evening of the 12th through the early morning of the 14th. Heavy snow was reported at many locations during that time. Some 24-hour snow totals included Big Horn with 15 inches, Jackson Hole and Jelm with 12 inches, Rawlins and Casper 11 inches, Sheridan 10 inches, and Torrington with 9 inches.

WY2015
Southern Mountains

14 0800MST-
15 0800MST 0 0 0 0 Heavy Snow

From the morning of the 14th through the following morning on the 15th, the Snowy Range ski area received 10 inches of new snow.

WY2016-017
Laramie Valley, Southeast Plains

15 0800MST-
2300MST 0 0 0 0 High Wind

From the morning through the late evening of the 15th, strong winds blew across extreme southern Wyoming. Vedaauwo, 30 miles west of Cheyenne, logged 40 to 50 mph sustained winds with peak gusts up to 63 mph. These winds caused considerable blowing and drifting snow. Interstate 80 between Cheyenne and Laramie was briefly closed because of the blowing snow during the afternoon of the 15th.

WY2011
Central Plains

17 0900MST-
1600MST 0 0 0 0 High Wind

During much of the 17th, high winds were reported in central Wyoming. Casper had sustained 35 to 45 mph winds. Peak gusts up to 64 mph were reported near Casper Mountain, located about 10 miles southwest of Casper.

ALASKA, Northern

No report received at NCDC.

ALASKA, Southern

Aleutians 4-5 UNKNOWN High Winds

A tight pressure gradient between a strong Pacific high and a 1002 mb low moving east across the Bering Sea produced strong and gusty southwest winds. Adak's winds were 40 to 45 mph with gusts as high as 83 mph. Amchitka reported a peak gust of 59 mph.

North Gulf Coast Kodiak Island 4-5 UNKNOWN High Winds

A strong 973 mb low moved northwest into the northeast Gulf of Alaska with strong northwest and west winds west of the low. Barwell Island near Cape Resurrection reported a peak wind of 99 mph. Winds gusted to 63 mph at Whittier and 59 mph at Kodiak.

Aleutians Pribilofs 09-11 UNKNOWN High Winds
Blizzard

A 983 mb low moved northeastward across the western Aleutians. Amchitka reported northwest winds gusting to 76 mph after passage of the low center. Gusts at Adak and Shemya hit 65 mph. Saint Paul had blizzard conditions and east winds to 59 mph early on the 11th.

STORM DATA AND UNUSUAL WEATHER PHENOMENA

FEBRUARY 1990

PLACE	DATE	TIME	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
		LOCAL STANDARD			KILLED	INJURED	PROPERTY	CROPS	

Yukon-Kuskokwim Delta

11-12 UNKNOWN

High Winds
Blizzard

A 998 mb low moved north to Nunivak Island. Southeast winds gusted to 74 mph at Cape Newenham. Parts of Yukon-Kuskokwim Delta had severe blizzard conditions with northeast winds to 56 mph, visibility near zero, temperatures near 10 below and dangerous wind chill near 60 below.

Cook Inlet North Gulf Coast

13 UNKNOWN

High Winds
Heavy Snow

A low moved eastward into southern Alaska then re-formed in the northern Gulf of Alaska then moved east. West winds gusted to 63 mph at Middleton Island after passage of the low. Valdez picked up 18.5 inches of snow, and 5 to 11 inches fell in the Anchorage area. Whiteout conditions caused a pileup on the Glenn Highway near Eagle River in which 56 vehicles were damaged and 25 people were injured.

Western Aleutians

19-20 UNKNOWN

High Winds

A 989 mb low moved southeastward through the western Aleutians. North winds gusted to 76 mph at Shemya after passage of the low center.

Eastern Aleutians

22-23 UNKNOWN

High Winds
Blizzard

A 978 mb low moved northward to just south of the eastern Aleutians and developed a tight pressure gradient north of the low. Nikolski reported sustained winds as high as 68 mph with gusts to 82 mph. The Dutch Harbor-Unalaska area had north winds to 60 mph, blizzard conditions and 10 foot drifts which closed roads.

Cook Inlet

26 UNKNOWN

5

High Winds

A cold front moved across the Cook Inlet area bringing southeast winds gusting to 40 to 70 mph to parts of the east and south parts of Anchorage including the hillside, snapping power lines and knocking out power to 3,500 customers. The winds were partially to blame for the collapse of a warehouse at 63 East 81st street.

North Gulf Coast Cook Inlet

27 UNKNOWN

High Winds

A low moved northward to Prince William Sound area and developed a tight pressure gradient west of the low center. Big River Lakes reported sustained west winds to 69 mph with gusts to 92 mph in the afternoon. Barwell Island had northwest wind gusts to 82 mph. East of the low center Yakutat reported southeast winds gusting to 55 mph early in the morning.

ALASKA, Southeastern

None reported.

HAWAII

Hawaii All Islands

6-9

0 0 5 0 Wind, Surf

A period of unusually strong trade winds occurred as a 1050mb high pressure system settled in north and northeast of the Islands. Scattered wind damage was reported as winds locally gusted near 60 mph or more. Strongest winds occurred where the northeast winds were blowing downslope such as across the Waimea saddle down toward Waaikoloa and Kawaihae on the island of Hawaii. Rough surf along the east shores caused some damage along Kilo Bay and the Kalapana beaches.

All Islands

28-Mar 01

0 0 5 0 Flash Flooding

Heavy showers on all islands caused minor flash flooding and mud slides. Windward Big Island and the Kohala district was affected mostly on the 28th while some flash flooding in Oahu's Niu Valley occurred on March 1st. These showers fell after a heavy rain on February 24th and 25th and soaked most areas.

STORM SUMMARY

TYPE	ALABAMA	ARIZONA	ARKANSAS	CALIFORNIA	COLORADO	CONNECTICUT	DELAWARE	FLORIDA	GEORGIA	IDAHO	ILLINOIS	INDIANA	IOWA	KANSAS	KENTUCKY	LOUISIANA	MAINE	MARYLAND & DC	MASSACHUSETTS	MICHIGAN	MINNESOTA	MISSISSIPPI	MISSOURI	MONTANA	NEBRASKA	NEVADA	NEW HAMPSHIRE
TORNADOES														0							0						
Number	11		2					2	11							8						5	2				
Days	4		2					2	3							2						3	1				
Deaths	0		0					0	0							0						0	0				
Injuries	46		0					0	16							6						4	0				
Property Damage	7		?					5	6							5						5	3				
Crop Damage	?		?					0	0							0						0	0				
HAIL																											
Deaths			0						0							0						0	0				
Injuries			0						0							0						0	0				
Property Damage			?						?							6						?	?				
Crop Damage			?						0							?						?	?				
THUNDERSTORM WINDS																											
Deaths	0		0				0	0	3						0	1						0	0				
Injuries	85		0				1	0	27						0	1						0	0				
Property Damage	7		4				5	5	?						3	6						6	6				
Crop Damage	?		?				0	0	?						0	0						0	0				
HIGH WINDS																											
Deaths		0		0	0				0		0		0					0		0				0		0	
Injuries		0		1	0				0		?		0					0		0				0		0	
Property Damage		4		?	5				?		?		4					5		5				4		0	
Crop Damage	0	0		0	0				?		0		0					0		0			5		0	0	
LIGHTNING																											
Deaths			0						0																		
Injuries			0						0																		
Property Damage			3						4																		
Crop Damage			?						0																		
FLASH FLOODS																											
Deaths	3		0	1				0	0			1			0	0						2					
Injuries	0		5	0				0	0			0			5	?						6					
Property Damage	7		?	0				7	0			6			3	?						?					
Crop Damage	?		?	0				0	0			?										?					
FLOODS																											
Deaths				0					3																		
Injuries				0					1																		
Property Damage				?					7																		
Crop Damage				0					?																		
HEAVY SNOWSTORMS AND BLIZZARDS @																											
Deaths				0					0																		
Injuries				1					0			2													0		
Property Damage				5					5			5													2		
Crop Damage				0					0			?												1		0	
ICE STORMS #																											
Deaths											0																
Injuries											?																
Property Damage											8																
Crop Damage											0																
HURRICANES AND TROPICAL STORMS																											
Deaths																											
Injuries																											
Property Damage																											
Crop Damage																											
ALL OTHERS																											
Deaths	0			0																							
Injuries	0			0																							
Property Damage	0			0																							
Crop Damage	?			7																							

STORM DAMAGE CATAGORIES

REFERENCE NOTES

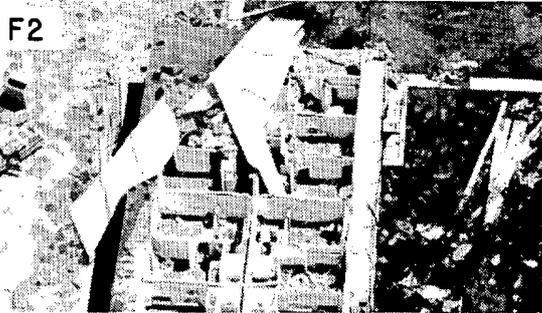
- 1 Less than \$50
- 2 \$50 to \$500
- 3 \$500 to \$5,000
- 4 \$5,000 to \$50,000
- 5 \$50,000 to \$500,000
- 6 \$500,000 to \$5 Million
- 7 \$5 Million to \$50 Million
- 8 \$50 Million to \$500 Million
- 9 \$500 Million to \$5 Billion

- O/Blank None reported.
- * Miles instead of yards.
- ** Yards instead of miles.
- @ Includes heavy sleet storm.
- # Freezing drizzle and freezing rain, commonly known as glaze.
- ≠ Report incomplete.
- ≠≠ Report not received.
- o/c Indicates Crop Damage amount is included in the value given for property damage.

When reports are not received or are incomplete, the Storm Summary National Death and Injury totals may also be incomplete.

Definition of Fujita Tornado Scale (F scale)

(F0) Gale tornado (40-72 mph): Light damage
Some damage to chimneys; break branches off trees; push over shallow-rooted trees; damage sign boards.



(F1) Moderate tornado (73-112 mph): Moderate damage
The lower limit (73 mph) is the beginning of hurricane wind speed; peel surface off roofs; mobile homes pushed off foundations or overturned; moving autos pushed off the roads.



(F2) Significant tornado (113-157 mph): Considerable damage
Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light-object missiles generated.

(F3) Severe tornado (158-206 mph): Severe damage
Roofs and some walls torn off well-constructed houses; trains overturned; most trees in forest uprooted; heavy cars lifted off ground and thrown.



(F4) Devastating tornado (207-260 mph): Devastating damage
Well-constructed houses leveled; structure with weak foundation blown off some distance; cars thrown and large missiles generated.

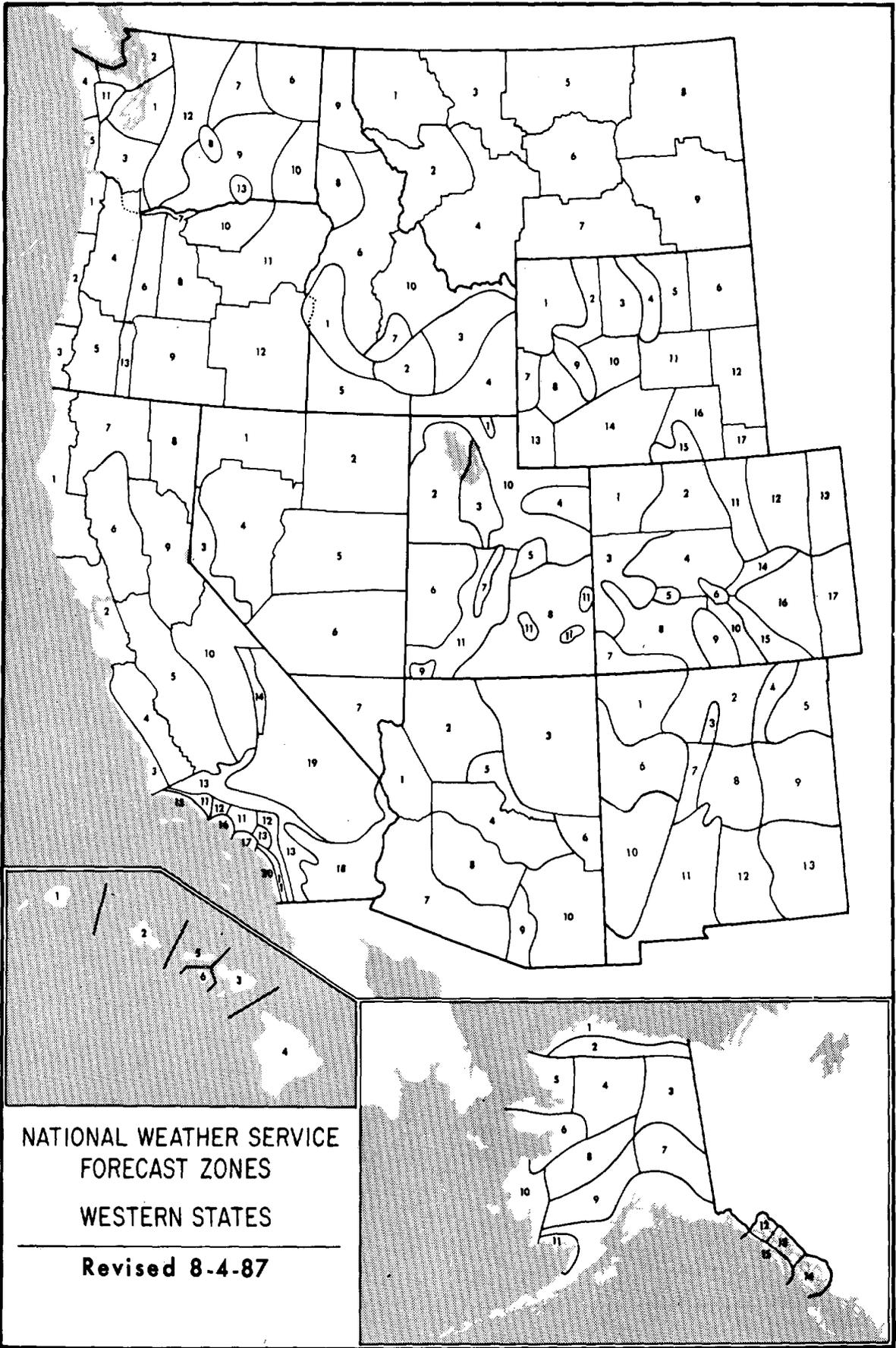
(F5) Incredible tornado (261-318 mph): Incredible damage
Strong frame houses lifted off foundations and carried considerable distance to disintegrate; automobile-sized missiles fly through the air in excess of 100 m; trees debarked; incredible phenomena will occur.



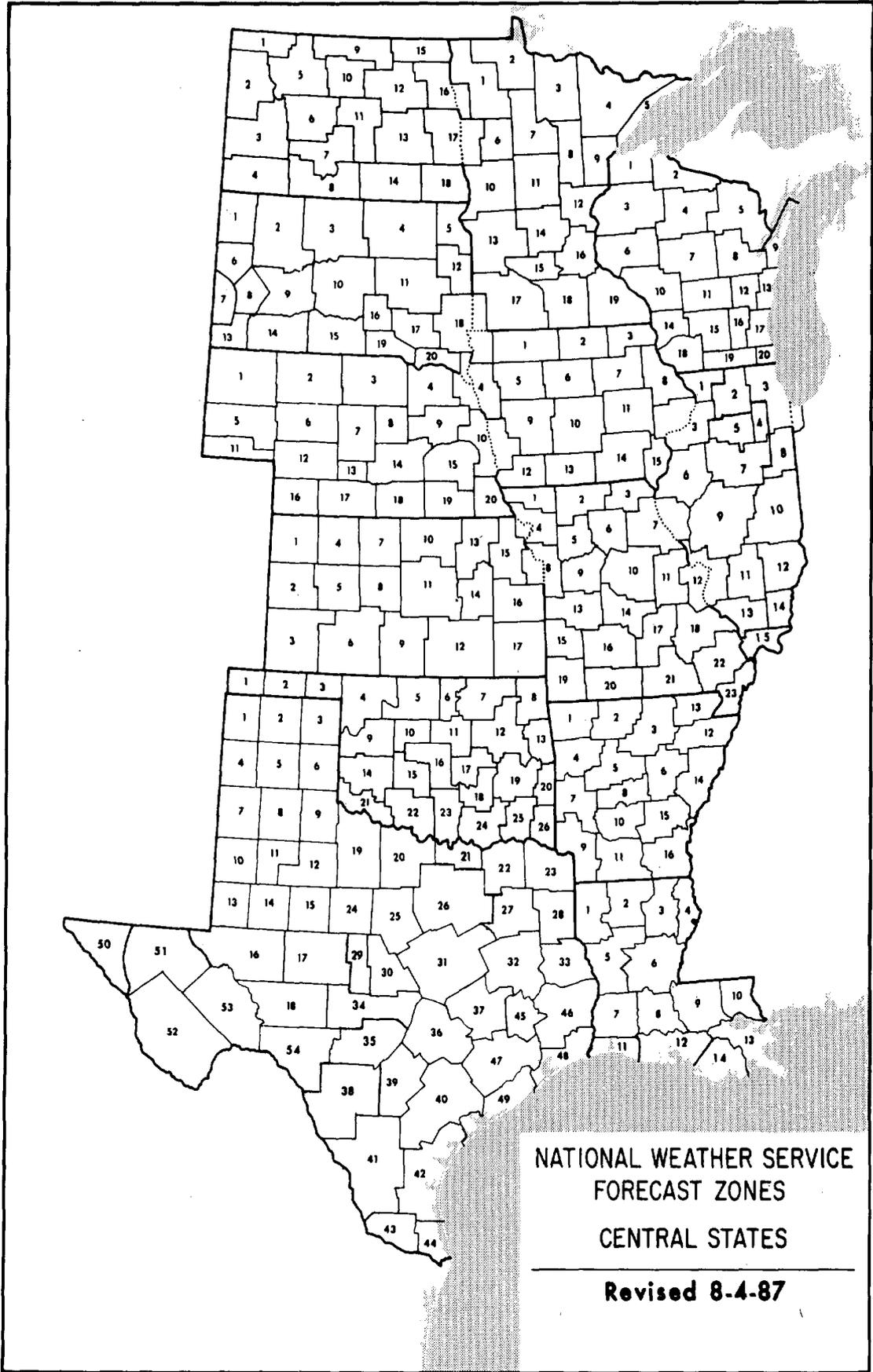
(F6-F12) (319 mph to Mach 1, the speed of sound):
The maximum wind speeds of tornadoes are not expected to reach the F6 wind speeds.

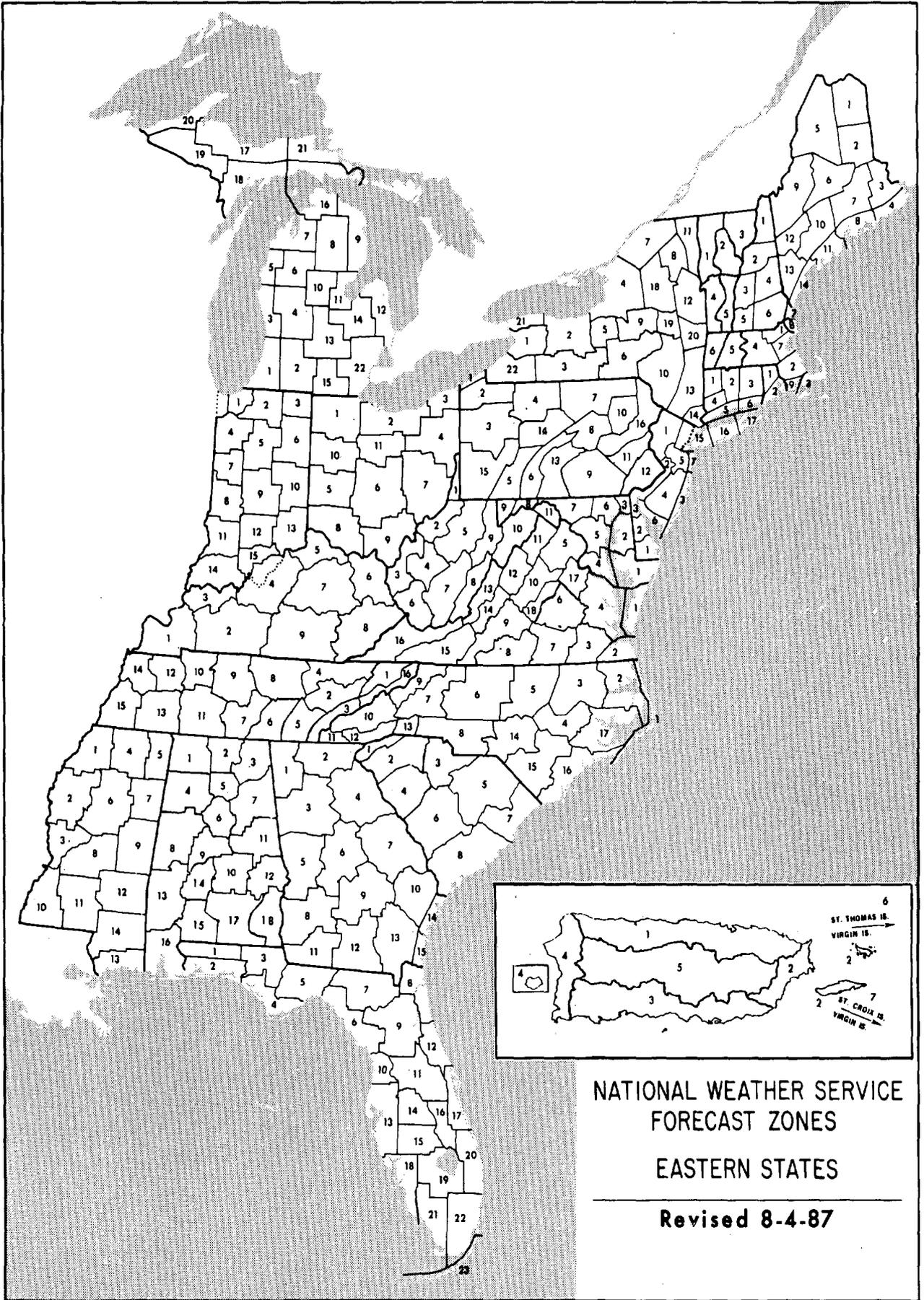
-
- (F0+F1) Weak Tornado
 - (F2+F3) Strong Tornado
 - (F4+F5) Violent Tornado
-

From J. Atmos. Sci., August 1981, p. 1517-1519



NATIONAL WEATHER SERVICE
FORECAST ZONES
WESTERN STATES
Revised 8-4-87





NATIONAL WEATHER SERVICE
FORECAST ZONES
EASTERN STATES

Revised 8-4-87

DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER
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